

GenCore version 4.5
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RNA nucleic - nucleic search, using sw model

Run on: February 18, 2001, 08:51:31 ; Search time 128.56 Seconds

(without alignments)
8643.515 Million cell updates/sec

Title: US-09-434-382-3

Perfect score: 2958

Sequence: 1 cggcggttagtgaccggc.....aataaagattgagtttgcac 2958

Scoring table: OLIGO_NUC

Gapop 60.0 , Gapext 60.0

Searched: 480022 seqs, 187831343 residues

Word size : 0

Total number of hits satisfying chosen parameters: 960044

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 100 summaries

Database : N_Geneseq_36.*

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21: /cgnl_8/gcgdata/geneseq/geneseq/NA2000.DAT:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	237	8.0	238	21	280231 Human colon cancer
2	33	1.8	72	16	T25953 Human gene signatu
3	59	1.3	68	19	X11554 Human biallelic po
4	19	0.6	526	20	V88751 EST clone HK189.
5	19	0.6	7642	20	V82020 Moraxella catarrha
6	18	0.6	45	20	Z33905 Human PRO274 hybr
7	18	0.6	177	20	X18065 Coding sequence fo
8	18	0.6	531	18	T67773 H. pylori cytoplas
9	18	0.6	531	18	T77453 H. pylori cytoplas
10	18	0.6	726	21	Z80749 Human colon cancer
11	18	0.6	1040	21	Z48812 Soybean inositol 1
12	18	0.6	1593	18	T67992 H. pylori cytoplas

c 13	18	0.6	1626	20	X08683 Novel nucleotide s
c 14	18	0.6	2186	19	V17351 Coding sequence fo
c 15	18	0.6	2450	20	X20537 Polynucleotide seq
c 16	18	0.6	2605	19	V04699 Homo sapiens 20q13
c 17	18	0.6	2945	20	Z33895 Human RNA helicase
c 18	18	0.6	4120	20	Z09473 Coding strand of n
c 19	18	0.6	6139	19	V70354 Human LOBO homolog
c 20	18	0.6	49999	20	Z33903 C kappa exon prime
c 21	17	0.6	21	15	Q54684 Plant microsatelli
c 22	17	0.6	256	21	A32079 Plant microsatelli
c 23	17	0.6	300	21	A32050 Human colon cancer
c 24	17	0.6	300	21	A01382 Immunogen DNA from
c 25	17	0.6	304	17	T07238 Human 5' EST isola
c 26	17	0.6	330	20	Z42643 Murine Bcl-2 inter
c 27	17	0.6	332	20	Z24993 Human gene signatu
c 28	17	0.6	347	16	T24629 Human secreted pro
c 29	17	0.6	369	20	X41005 Murine Bcl-2 inter
c 30	17	0.6	422	20	X24994 Plant microsatelli
c 31	17	0.6	426	21	A32069 Plant microsatelli
c 32	17	0.6	431	21	A32052 Calcium ion channe
c 33	17	0.6	559	19	V29360 Murine Bcl-2 inter
c 34	17	0.6	590	20	X24995 EST clone BN180.
c 35	17	0.6	605	20	V87198 Streptococcus pneu
c 36	17	0.6	791	20	X24979 MAGE-4 encoding ge
c 37	17	0.6	855	21	Z91823 H6/MAGE-1 expressi
c 38	17	0.6	1022	20	X40199 H6/MAGE-1 expressi
c 39	17	0.6	1084	15	Q87866 H6/MAGE-1 expressi
c 40	17	0.6	1084	20	Z08442 H6/MAGE-1 expressi
c 41	17	0.6	1094	15	Q87865 H6/MAGE-1 expressi
c 42	17	0.6	1094	20	Z08441 Human secreted pro
c 43	17	0.6	1140	20	X27353 Hepatitis C virus
c 44	17	0.6	1173	13	Q29634 Hepatitis C virus
c 45	17	0.6	1173	13	Q29635 NANB hepatitis vir
c 46	17	0.6	1173	14	Q43895 CDNA encoding a fo
c 47	17	0.6	1209	21	Z46089 Lipoprotein D-MAGE
c 48	17	0.6	1338	20	X87591 16S RNA from ATCC
c 49	17	0.6	1341	20	X87591 CDNA encoding prot
c 50	17	0.6	1345	12	Q14450 DNA encoding GTP-b
c 51	17	0.6	1557	17	T27644 Streptococcus pneu
c 52	17	0.6	1591	19	V98595 Neurodegenerative
c 53	17	0.6	1592	19	V42963 Murine D6 encoding
c 54	17	0.6	1632	19	V68059 Mouse FAST-1 codin
c 55	17	0.6	1664	20	Z25023 Tumour rejection a
c 56	17	0.6	1668	20	V72116 Human prostate tum
c 57	17	0.6	1891	20	V69719 Beta(1 -> 4)-N-ace
c 58	17	0.6	1702	20	Z52876 Antigen E gene. H
c 59	17	0.6	1724	19	V38385 Tumour rejection a
c 60	17	0.6	1816	20	X85940 MZ2-MEL antigen E
c 61	17	0.6	1818	20	X01577 Antigen E coding s
c 62	17	0.6	1906	21	A15550 Tumour rejection a
c 63	17	0.6	2160	16	T09084 Human melanoma ant
c 64	17	0.6	2284	21	Z50582 Human secreted pro
c 65	17	0.6	2418	20	X84103 Human endometrium
c 66	17	0.6	2419	13	Q32351 Neurodegenerative
c 67	17	0.6	2419	15	Q72476 fdhF gene. synthe
c 68	17	0.6	2419	16	T05086 Encodes partial mu
c 69	17	0.6	2419	20	X84112 T-cell surface ant
c 70	17	0.6	2420	15	Q72472 Human CD97 protein
c 71	17	0.6	2420	16	Q85435 Nitrate reductase
c 72	17	0.6	2503	19	V59595 Xenopus frog prote
c 73	17	0.6	2646	20	Z42096 Sequence of nitrog
c 74	17	0.6	2711	19	V68056 Human colon carcin
c 75	17	0.6	2971	9	N81166 Full length expand
c 76	17	0.6	3000	12	Q13115 Human FACC cDNA cl
c 77	17	0.6	3156	19	V18471 Fanconi anaemia CO
c 78	17	0.6	3356	20	Z37969
c 79	17	0.6	3457	14	Q48468
c 80	17	0.6	3796	18	T93499
c 81	17	0.6	4216	8	N70558
c 82	17	0.6	4308	18	T45351
c 83	17	0.6	4308	21	Z51806
c 84	17	0.6	4488	14	Q51426
c 85	17	0.6	4567	20	V33945

86 17 0.6 5674 13 Q32352
 87 17 0.6 5674 15 Q74477
 88 17 0.6 5674 20 X84113
 89 17 0.6 5720 17 T42117
 90 17 0.6 5720 21 Z51508
 91 17 0.6 5724 16 Q98902
 92 17 0.6 6464 14 Q48772
 93 17 0.6 10240 19 V52165
 94 17 0.6 10461 20 X20553
 95 17 0.6 10813 18 V74675
 96 17 0.6 11236 15 Q70447
 97 17 0.6 21170 20 X20535
 98 17 0.6 29604 18 X83005
 99 17 0.6 34094 20 Z30163
 100 17 0.6 38734 20 Z32020

ALIGNMENTS

RESULT 1
 30231
 Z80231 standard; cDNA; 238 BP.
 Z80231;
 07-APR-2000 (first entry)
 Human colon cancer cell line SW480 cDNA clone SEQ ID NO:315.
 Human; gene expression product; diagnosis; tumour; colon cancer;
 colorectal adenocarcinoma; cell line SW480; cell proliferation;
 cytostatic; sarcoma; breast cancer; neoplasia; dysplasia;
 hyperplasia; ds.
 Homo sapiens.
 WO9964576-A2.
 16-DEC-1999.
 09-JUN-1999; 99WO-IB01062.
 10-JUN-1998; 98US-0088801.
 (FARB) BAYER CORP.
 Endege WO, Steinmann KE, Astle JH, Burgess CC, Bushnell SE;
 Carroll E, Catino TJ, Derti A, Ford DM, Lewis ME, Monahan JE;
 Schlegel R;
 WPI; 2000-087220/07.
 Novel nucleic acids, used to develop products for the diagnosis and
 treatment of disorders involving unwanted cell proliferation,
 particularly cancers, especially colon cancer.
 Claim 15; Page 258; 469pp; English.
 Z79917 to Z80766 represent double stranded cDNA clones isolated from the
 human colorectal adenocarcinoma (colon cancer) cell line SW480. The
 cDNA clones can be used to generate antisense oligonucleotides which
 can be used for antisense therapy. Methods and products from the present
 invention can be used for identifying and/or classifying cancerous cells
 present in a human tumour, particularly in solid tumours, e.g. carcinomas
 and sarcomas, e.g. breast or colon cancers. The cDNA clones can be used
 for developing agents for the diagnosis and treatment of disorders
 involving unwanted cell proliferation, such as neoplasia, dysplasia or
 hyperplasia.
 Sequence 238 BP; 55 A; 57 C; 69 G; 57 T; 0 other;

Query Match 8.0%; Score 237; DB 21; Length 238;
 Best Local Similarity 100.0%; Pred. No. 4.1e-106; Indels 0; Gaps 0;
 Matches 237; Conservative 0; Mismatches 0;
 QY 226 acctgcaggtggtggcagcgggttagcgggactcggcgctcgtctacgtctctccg 285
 Db 1 acctgcaggtggtggcagcgggttagcgggactcggcgctcgtctacgtctctccg 60
 QY 286 agttcaacgggtatctcttcaactgtggagaaaggcgttcagagactcagagagacaca 345
 Db 61 agttcaacgggtatctcttcaactgtggagaaaggcgttcagagactcagagagacaca 120
 QY 346 agttaaggttgctgcctgggacacatatctcctgacacaaatgcactgtctaaatttg 405
 Db 121 agttaaggttgctgcctgggacacatatctcctgacacaaatgcactgtctaaatttg 180
 QY 406 ggggcttaagtgaatgattcttactttaaggaacccggcttccaaagtgtgtac 462
 Db 181 ggggcttaagtgaatgattcttactttaaggaacccggcttccaaagtgtgtac 237
 RESULT 2
 T25953
 ID T25953 standard; cDNA to mRNA; 72 BP.
 XX
 AC T25953;
 XX
 DT 28-OCT-1996 (first entry)
 XX
 DE Human gene signature HUMGS08188.
 XX
 KW Gene signature; messenger RNA; mRNA; relative abundance; frequency;
 human; cloning; mapping; non-biased library; diagnosis; detection;
 cell typing; abnormal cell function; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO9514772-A1.
 XX
 PD 01-JUN-1995.
 XX
 PF 11-NOV-1994; 94WO-JP01916.
 XX
 PR 12-NOV-1993; 93JP-0355504.
 XX
 PA (MATS/) MATSUBARA K.
 PA (OKUB/) OKUBO K.
 XX
 PI Matsubara K, Okubo K;
 XX
 DR WPI; 1995-206931/27.
 XX
 PS
 PT Identifying gene signatures in 3'-directed human cDNA library - e.g.
 for diagnosis of abnormal cell function, by preparing cDNA that
 reflects relative abundance of corresp. mRNA in specific human
 tissues
 XX
 CC Claim 1; Page 1967; 2245pp; Japanese.
 CC A single-stranded DNA (or its complementary strand or the corresp.
 double-stranded DNA) which comprises one of the 7837 "GS" sequences
 given in T19001-T26637 and which is able to hybridise to part of
 human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature)
 sequences were obtained from 3'-directed cDNA libraries prepared
 from various human tissues; synthesis of cDNA was initiated from the
 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-
 untranslated sequence is unique to a particular mRNA species, almost
 all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library
 is constructed so as to reflect accurately the relative abundance of
 different mRNAs in the particular tissue from which it was derived.
 CC The appearance frequency of a given GS in a cDNA library can be
 determined (esp. using primers and probes derived from the GS
 sequences) as a means of diagnosing abnormal cell function or for

CC recognising different cell types.

Q Sequence 72 BP; 25 A; 10 C; 16 G; 20 T; 1 other;

Query Match 1.8%; Score 53; DB 16; Length 72;
Best Local Similarity 100.0%; Pred. No. 4.4e-16;
Matches 53; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2906 tccgagacttaacgaaatagatttcagctgcgaataaagattgagttgcaa 2958
|||||
Qb 19 tccgagacttaacgaaatagatttcagctgcgaataaagattgagttgcaa 71
|||||

RESULT 3

XD X11554/c
XD X11554 standard; DNA; 68 BP.

XX X11554;

XT 30-MAR-1999 (first entry)

Human biallelic polymorphic DNA fragment ESTC169.

XX Polymorphism: biallelic; human; forensic; paternity testing; disease;
DE detection; phenotypic typing; characteristic; infection; hereditary;
XX autoimmune disease; cancer; inflammation; drug; therapy; medication;
W treatment; marker; ss.

XX Homo sapiens.

DS WO9820165-A2.

XX 14-MAY-1998.

XX 05-NOV-1997; 97WO-US20313.

XX 06-NOV-1996; 96US-0030455.

XX (WHED) WHITEHEAD INST BIOMEDICAL RES.

XX Hudson T, Lander ES, Wang D;

XX WPI; 1998-286974/25.

XX New isolated nucleic acid segments from the human genome - used for
PI determining polymorphic forms for use in e.g. forensics, paternity
PI testing or phenotypic typing for disease

XX Claim 1; Page 172; 310pp; English.

XX X10269-X12937 are human DNA fragments which contain biallelic polymorphic
XX markers which have been isolated using the primers represented in
XX X09121-X10268. The base occupying the polymorphic site is indicated by
XX the appropriate IUPAC-TUB ambiguity code. These fragments can be used in
XX methods for determining polymorphic forms in an individual for use in
XX e.g. forensics, paternity testing or for phenotypic typing for diseases
XX such as agammaglobulinemia, diabetes insipidus, Lesch-Nyhan syndrome,
XX muscular dystrophy, Wiskott-Aldrich syndrome, Fabry's disease, familial
XX hypercholesterolemia, polycystic kidney disease, hereditary
XX spherocytosis, von Willebrand's disease, tuberous sclerosis, hereditary
XX haemorrhagic telangiectasia, familial colonic polyposis, Ehlers-Danlos
XX syndrome, osteogenesis imperfecta, acute intermittent porphyria,
XX autoimmune diseases, inflammation, cancer, diseases of the nervous
XX system, infection by pathogenic microorganisms, and characteristics such
XX as longevity, appearance (e.g. baldness, obesity), strength, speed,
XX endurance, fertility, and susceptibility or receptivity to particular
XX drugs or therapeutic treatments. The isolated polymorphic nucleic acid
XX segments can also be used to produce medicaments for the treatment or
XX prophylaxis of such diseases.

QY Sequence 68 BP; 12 A; 13 C; 21 G; 21 T; 1 other;

Query Match 1.3%; Score 39; DB 19; Length 68;
Best Local Similarity 100.0%; Pred. No. 3.1e-09;
Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2812 tggaaacagacgcgcacatttctcttaattccagcaaa 2850
|||||
Db 62 TGGAAACAGACGGCGGCACCTTCTCTATATCCAGCAA 24
|||||

RESULT 4

ID V88751/c
XX V88751 standard; cDNA; 526 BP.

AC V88751;

XX 12-FEB-1999 (first entry)

XX EST clone HK189.

XX Expressed sequence tag; secreted protein; haematopoiesis regulator;
KW tissue growth; activin; inhibin; tumour invasion suppressor; EST; human;
KW chemotaxis; chemokinesis; haemostasis; gene therapy; thrombolysis;
KW receptor; ligand; anti-inflammatory; tumour inhibitor; ds.

XX Homo sapiens.

XX WO9845437-A2.

XX 15-OCT-1998.

XX 10-APR-1998; 98WO-US06956.

XX 10-APR-1997; 97US-0837312.

XX (GEMY) GENETICS INST INC.

XX Agostino MJ, Jacobs K, Lavallie ER, McCoy JM, Merberg D;
PI Racie LA, Spaulding V, Treacy M;

XX WPI; 1999-070078/06.

XX New polynucleotides encoding human secreted proteins - derived from
PI e.g. human blood, kidney, foetal lung, placenta, testes, brain,
PI ovary, pituitary, retina and colon cDNA libraries

XX Claim 1; Page 500; 641pp; English.

XX The present sequence represents an expressed sequence tag (EST), and is
XX a polynucleotide of the invention. The polynucleotides of the invention
XX are all secreted EST sequences isolated from a variety of human tissue
XX sources. The EST sequences and proteins encoded by them are predicted to
XX have useful biological activities which would make them suitable for
XX treating, preventing or ameliorating medical conditions in humans and
XX animals, although no supporting data is given. Suggested activities
XX include nutritional activity, immune stimulating or suppressing activity,
XX haematopoiesis regulating activity, tissue growth activity,
XX activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
XX and thrombolytic activity, receptor/ligand activity, anti-inflammatory
XX activity, cadherin/tumour invasion suppressor activity, tumour inhibition
XX activity. The EST sequences are also stated to be useful for gene
XX therapy.

XX Sequence 526 BP; 127 A; 138 C; 136 G; 125 T; 0 other;

Query Match 0.6%; Score 19; DB 20; Length 526;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 742 gaagagggtcaggactc 760
|||||

Db 272 GAAGAGGGGTCAGGACTC 254
|||||

DR P-PSDB; W89417, W89418, W89419, W89420.

XX Lactoferrin receptor genes from Moraxella, especially M. catarrhalis

PT - useful to diagnose Moraxella infection e.g. to detect otitis media

PT due to M. catarrhalis infection and to immunise against such

PT infections

XX Claim 8; Fig 4A-4P'; 202pp; English.

XX This polynucleotide comprises the lactoferrin receptor (lfr) locus

CC of Moraxella catarrhalis (Branhamella catarrhalis) O8. There are

CC 3 tandem genes in locus, identified as lbpA, lbpB (alternative

CC start codons) and orf3A, respectively encoding lactoferrin binding

CC protein 2 (Lbp2, see W89417), lactoferrin binding protein 1 (Lbp1,

CC see W89418 and W89419) and open reading frame protein 3 (ORF3, see

CC W89420). The lfr locus was identified following generation of a M.

CC catarrhalis strain O8 genomic DNA library and screening with

CC specific hybridisation probes. The genes and DNA sequences of the

CC lfr locus are useful for diagnosis, immunisation, and the

CC generation of diagnostic and immunological reagents. Immunogenic

CC compositions, including vaccines, based upon expressed recombinant

CC Lbp1 and/or Lbp2 and/or ORF3, portions of these or their analogues,

CC can be prepared for prevention of diseases caused by Moraxella. M.

CC catarrhalis is a causative agent of otitis media and has been

CC associated with sinusitis, conjunctivitis and inflammatory diseases

CC of the lower respiratory tract, such as pneumonia, chronic

CC bronchitis, tracheitis and emphysema.

XX Sequence 7642 BP; 2417 A; 1726 C; 1631 G; 1868 T; 0 other;

SQ

Query Match 0.6%; Score 19; DB 20; Length 7642;

Best Local Similarity 100.0%; Pred. No. 18;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps

QY 811 tcttggtgctcaagcaaa 829

|||||

DB 3657 tcttggtgctcaagcaaa 3675

RESULT 6

Z33905

ID Z33905 standard; DNA; 45 BP.

AC Z33905;

XX

DT 07-DEC-1999 (first entry)

XX

DE Human PRO274 hybridisation probe.

XX

KW Human; PRO: EST: expressed sequence tag; PCR primer; hybridisation;

KW probe: blood coagulation disorder; cancer; cellular adhesion disorder;

KW secreted protein; transmembrane protein; ss.

XX Synthetic.

OS Homo sapiens.

XX WO9946281-A2.

XX

PD 16-SEP-1999.

XX

PF 08-MAR-1999; 99WO-US05028.

XX

PR 10-MAR-1998; 98US-0077450.

PR 11-MAR-1998; 98US-0077632.

PR 11-MAR-1998; 98US-0077641.

PR 11-MAR-1998; 98US-0077649.

PR 12-MAR-1998; 98US-0077791.

PR 13-MAR-1998; 98US-0078004.

PR 17-MAR-1998; 98US-0040220.

PR 20-MAR-1998; 98US-0078886.

PR 20-MAR-1998; 98US-0078910.

PR 20-MAR-1998; 98US-0078936.


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20-MAR-1998; 98US-0078939.
25-MAR-1998; 98US-0079294.
26-MAR-1998; 98US-0079656.
27-MAR-1998; 98US-0079663.
27-MAR-1998; 98US-0079664.
27-MAR-1998; 98US-0079689.
27-MAR-1998; 98US-0079728.
27-MAR-1998; 98US-0079786.
30-MAR-1998; 98US-0079920.
30-MAR-1998; 98US-0079923.
31-MAR-1998; 98US-0080105.
31-MAR-1998; 98US-0080107.
31-MAR-1998; 98US-0080165.
31-MAR-1998; 98US-0080194.
01-APR-1998; 98US-0080327.
01-APR-1998; 98US-0080328.
01-APR-1998; 98US-0080333.
01-APR-1998; 98US-0080334.
08-APR-1998; 98US-0081049.
08-APR-1998; 98US-0081070.
08-APR-1998; 98US-0081071.
09-APR-1998; 98US-0081195.
09-APR-1998; 98US-0081203.
15-APR-1998; 98US-0081229.
15-APR-1998; 98US-0081817.
15-APR-1998; 98US-0081838.
15-APR-1998; 98US-0081952.
15-APR-1998; 98US-0081955.
21-APR-1998; 98US-0082568.
21-APR-1998; 98US-0082569.
22-APR-1998; 98US-0082700.
22-APR-1998; 98US-0082704.
22-APR-1998; 98US-0082804.
23-APR-1998; 98US-0082767.
27-APR-1998; 98US-0083336.
28-APR-1998; 98US-0083322.
29-APR-1998; 98US-0083392.
29-APR-1998; 98US-0083495.
29-APR-1998; 98US-0083496.
29-APR-1998; 98US-0083499.
29-APR-1998; 98US-0083500.
29-APR-1998; 98US-0083545.
29-APR-1998; 98US-0083554.
29-APR-1998; 98US-0083558.
29-APR-1998; 98US-0083559.
30-APR-1998; 98US-0083742.
05-MAY-1998; 98US-0084366.
06-MAY-1998; 98US-0084414.
06-MAY-1998; 98US-0084441.
07-MAY-1998; 98US-0084598.
07-MAY-1998; 98US-0084600.
07-MAY-1998; 98US-0084627.
07-MAY-1998; 98US-0084637.
07-MAY-1998; 98US-0084639.
07-MAY-1998; 98US-0084640.
07-MAY-1998; 98US-0084643.
13-MAY-1998; 98US-0085323.
13-MAY-1998; 98US-0085338.
13-MAY-1998; 98US-0085339.
15-MAY-1998; 98US-0085573.
15-MAY-1998; 98US-0085579.
15-MAY-1998; 98US-0085580.
15-MAY-1998; 98US-0085582.
15-MAY-1998; 98US-0085689.
15-MAY-1998; 98US-0085697.
15-MAY-1998; 98US-0085700.
18-MAY-1998; 98US-0085704.
18-MAY-1998; 98US-0086023.
22-MAY-1998; 98US-0086392.
22-MAY-1998; 98US-0086414.
22-MAY-1998; 98US-0086430.
22-MAY-1998; 98US-0086486.

28-MAY-1998; 98US-0087098.
28-MAY-1998; 98US-0087106.
28-MAY-1998; 98US-0087208.
30-JUL-1998; 98US-0094651.
11-SEP-1998; 98US-0100038.
(GETH ) GENENTECH INC.
Wood WI, Goddard A, Gurney A, Yuan J, Baker KP, Chen J;
WPI; 1999-551358/46.
New secreted and transmembrane polypeptides and their polynucleotides,
useful for treating blood coagulation disorders, cancers and cellular
adhesion disorders -
XX
PS Example 4; Page 184; 530pp; English.
XX
The present invention describes secreted and transmembrane polypeptides
and their polynucleotides. The nucleotide sequences are useful as
sources of probes, primers, for chromosome mapping, and for generation
of antisense sequences. They can also be used to create transgenic
animals. The proteins can be used to treat a variety of diseases and
disorders, depending on their function. Diseases that may be treated
include blood coagulation disorders, cancers and cellular adhesion
disorders. They may also be used to raise antibodies. Z33891 to
Z34338, and Y41685 to Y41774 represent polynucleotide and polypeptide
sequences given in the exemplification of the present invention.
XX
SQ Sequence 45 BP; 8 A; 10 C; 19 G; 8 T; 0 other;

Query Match 0.68; Score 18; DB 20; Length 45;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 872 cattgtgctgtcaagga 889
|||||j|||||
Db 26 cattgtgctgtcaagga 43

RESULT 7
X18066/c
ID X18066 standard; DNA; 177 BP.
XX
XX X18066;
AC X18066;
XX
DT 04-MAY-1999 (first entry)
XX
DE Coding sequence for human SI binding protein Sni45.
XX
KW Gastro-intestinal transport receptor; binding protein; hSI; HPT1;
D2H; hPEPT1; human; GI tract receptor; sucrose-isomaltase complex;
KW intestinal peptide-associated transporter; hypertension; diabetes;
KW osteoporosis; haemophilia; anaemia; cancer; migraine; angina pectoris;
KW therapeutic agent delivery; therapy; ss.
XX
OS Homo sapiens.
XX
PN WO9851325-A2.
XX
PD 19-NOV-1998.
XX
PF 15-MAY-1998; 98WO-US10088.
XX
PR 15-MAY-1997; 97US-0046595.
XX
PA (CYTO-) CYTOGEN CORP.
PA (ELAN-) ELAN CORP PLC.
XX
XX Alvarez VL, Belinka BA, Cagney GM, Carter JM, Lambkin J;
PI Omahony DJ, Patterson CA, Singleton J;
XX
```

```

PR WPI: 1999-009568/01.
XX
PA New proteins that bind specifically to receptors in the
XX gastro-intestinal tract and related nucleic acid - chimaeras and
XX antibodies, used to deliver therapeutic or diagnostic agents to, or
XX through, the gastrointestinal tract, e.g. insulin or leuprolide
XX
XX Claim 49; Page 56; 294pp; English.
XX
XX This sequence encodes a peptide that specifically binds to the human
XX sucrose-isomaltase complex. The invention relates to purified
XX proteins (I) that bind specifically to at least one of the
XX gastro-intestinal (GI) tract receptors human intestinal
XX peptide-associated transporter (HPII), hPEPPI, D2H and human
XX sucrose-isomaltase complex (hSI). (I) provide active transport of
XX therapeutic agents through human and animal GI tissue (into the blood)
XX for in vivo delivery, particularly for treatment or prevention of
XX hypertension, diabetes, osteoporosis, haemophilia, anaemia, cancer,
XX migraine, or angina pectoris. Specifically they are used to deliver
XX insulin or leuprolide, but many other suitable therapeutic agents are
XX disclosed, including genes or inhibitory nucleic acid, imaging agents and
XX antigens. (I) may also provide targeting to the GI tract. Other uses of
XX (I) are: (i) to determine the level of specified receptors in a sample
XX (in a binding assay); and (ii) to screen for molecules that bind (I).
XX Immunogenic analogues or derivatives of (I) are used to raise antibodies
XX and in immunoassays. The antibodies of (I) are used to locate, detect and
XX measure (I), e.g. for imaging, monitoring treatment, tissue analysis
XX etc., also for peptide purification and immobilisation.
XX
XX Sequence 177 BP; 31 A; 51 C; 53 G; 42 T; 0 other;

Query Match 0.6%; Score 18; DB 20; Length 177;
Best Local Similarity 100.0%; Pred. No. 58;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 1816 agcagttaccacaaccagt 1833
D 90 AGCAGTACCACACCACT 73
XX
XX RESULT 8
XX T67773/c
XX T67773 standard; DNA; 531 BP.
XX T67773;
XX
XX 29-JUL-1997 (first entry)
XX
XX H. pylori cytoplasmic protein ORF 24824087.aa.
XX
XX Vaccine; prevention; treatment; infection; identification;
XX binding compound; bacterium; life cycle; activator; bacteria;
XX inhibitor; duodenal ulcer disease; chronic gastritis; diagnosis;
XX cytoplasmic; ds.
XX
XX Helicobacter pylori.
XX
XX Key Location/Qualifiers
XX CDS 1..531
XX /*tag= a
XX /transl_except= (pos: 460..462, aa: xaa)
XX /transl_except= (pos: 520..522, aa: xaa)
XX /transl_except= (pos: 526..528, aa: xaa)
XX /note= "Xaa = Unknown"
XX
XX WO9640893-A1.
XX
XX 19-DEC-1996.
XX
XX 06-JUN-1996; 96WO-0509122.
XX
XX 01-APR-1996; 96US-0630405.
XX

PR 07-JUN-1995; 95US-0487032.
XX
XX (ASTR ) ASTRA AB.
XX
XX Berglindh OT, Smith D, Mellgaard BL;
XX
XX WPI: 1997-052306/05.
XX
XX P-PSDB; W20335.
XX
XX Helicobacter pylori nucleic acid sequences and related
XX polypeptide(s) - useful for vaccines to treat or prevent H. pylori
XX infection, and to detect Helicobacter
XX
XX Claim 9; Page 1; 1481pp; English.
XX
XX The present sequence encodes a Helicobacter pylori cytoplasmic
XX protein.
XX The protein may be used in a vaccine to prevent or treat H. pylori
XX infection or to identify H. pylori polypeptide binding compounds,
XX useful as potential H. pylori life cycle activators or inhibitors.
XX The genomic sequence of H. pylori (ATCC 55679) was determined from
XX overlapping contigs generated by mechanically shearing the
XX bacterial DNA. The sequences were analysed for ORF of at least 180
XX nucleotides, and the predicted coding regions defined by computer
XX evaluation. To identify likely H. pylori antigens for vaccine
XX development, the amino acid sequences predicted from various ORF
XX were analysed for significant homology to other known or exported
XX membrane proteins. Having identified and determined the sequences
XX of interest, particular regions can be isolated from H. pylori by
XX PCR amplification for recombinant polypeptide production, e.g. in
XX E. coli hosts.
XX Note: This DNA sequence is not reproduced in the specification and
XX has been derived from the related specification, WO9719098.
XX
XX Sequence 531 BP; 175 A; 88 C; 114 G; 151 T; 3 other;

Query Match 0.6%; Score 18; DB 18; Length 531;
Best Local Similarity 100.0%; Pred. No. 57;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1760 aaagccgcttcacccctt 1777
D 311 AAAGCGCTTCACCCCTT 294
XX
XX RESULT 9
XX T77453/c
XX T77453 standard; DNA; 531 BP.
XX
XX AC T77453;
XX
XX 11-AUG-1997 (first entry)
XX
XX H. pylori cytoplasmic protein ORF 24824087.aa.
XX
XX Chronic gastritis; duodenal ulcer disease; activator;
XX inhibitor; bacterial life cycle; vaccine; immunisation; detection;
XX antisense; inhibition; cytoplasmic; Na+/H+ antiporter;
XX Escherichia coli; ds.
XX
XX Helicobacter pylori.
XX
XX Key Location/Qualifiers
XX CDS 1..531
XX /*tag= a
XX /transl_except= (pos: 460..462, aa: xaa)
XX /transl_except= (pos: 520..522, aa: xaa)
XX /transl_except= (pos: 526..528, aa: xaa)
XX /note= "Xaa = Unknown"
XX
XX WO9719098-A1.
XX
```

29-MAY-1997.
 15-NOV-1996; 96WO-US18542.
 17-NOV-1995; 95US-0561469.
 (ASTR) ASTRA AB.
 Smith DH;
 WPI; 1997-298052/27.
 P-PSDB; W24635.
 Helicobacter pylori nucleic acid sequences and related proteins -
 used for diagnostics and therapeutics
 Claim 1; Page 100; 235pp; English.
 The present sequence encodes a Helicobacter pylori cytoplasmic
 protein, which was found to be homologous to Escherichia coli
 Na⁺/H⁺ antiporter protein following BLAST protein analysis.
 H. pylori has been strongly linked to chronic gastritis and
 duodenal ulcer disease. The nucleic acid sequences of the invention
 are used to evaluate compounds, especially activators or inhibitors
 of bacterial life cycle, for the ability to bind an H. pylori
 nucleic acid sequence. The nucleic acid sequences, and
 corresponding proteins, are also useful for generating vaccines for
 immunising subjects against H. pylori or for use in detecting the
 presence of Helicobacter species in a sample. Antisense nucleic
 acid sequences of these sequences are used to inhibit expression of
 a gene from Helicobacter species. H. pylori whole genomic DNA was
 isolated and nebulized to a median size of 2000 bp. Purified DNA
 fragments were blunt-ended and ligated to unique BstXI-linker
 adapters in 100-1000 fold molar excess. These linkers are
 complementary to the BstXI-cut pMPX vectors, while the overhang is
 not self-complementary. Therefore the linkers will not
 concatemerize nor will the cut vector re-ligate itself easily. The
 linker-adaptor inserts were ligated to each of the 20 pMPX vectors
 to construct a series of shotgun subclone libraries. The purified
 DNA samples were then sequenced.
 Note: The ORF/protein reference number for this sequence was
 obtained from the related specification, WO9640893.
 Sequence 531 BP; 175 A; 88 C; 114 G; 151 T; 3 other;

Query Match 0.6%; Score 18; DB 18; Length 531;
 Best Local Similarity 100.0%; Pred. No. 57;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1760 aaagcgcgttcacccctt 1777
 |||||
 311 AAAGCGGCTTACCCCTT 294

RESULT 10
 130749
 280749 standard; cDNA; 726 BP.

280749;

07-APR-2000 (first entry)

Human colon cancer cell line SW480 cDNA clone SEQ ID NO:833.

Human; gene expression product; diagnosis; tumour; colon cancer;
 colorectal adenocarcinoma; cell line SW480; cell proliferation;
 cytostatic; sarcoma; breast cancer; neoplasia; dysplasia;
 hyperplasia; ds.

Homo sapiens.

WO9964576-A2.

16-DEC-1999.
 09-JUN-1999; 99WO-IB01062.
 10-JUN-1998; 98US-0088801.
 (FARB) BAYER CORP.
 Endege WO, Steinmann KE, Astle JH, Burgess CC, Bushnell SE;
 Carroll E, Catino TJ, Derti A, Ford DM, Lewis ME, Monahan JE;
 Schlegel R;
 WPI; 2000-087220/07.
 Novel nucleic acids, used to develop products for the diagnosis and
 treatment of disorders involving unwanted cell proliferation,
 particularly cancers, especially colon cancer
 Claim 15; Page 462; 469pp; English.

79917 to 280766 represent double stranded cDNA clones isolated from the
 human colorectal adenocarcinoma (colon cancer) cell line SW480. The
 cDNA clones can be used to generate antisense oligonucleotides which
 can be used for antisense therapy. Methods and products from the present
 invention can be used for identifying and/or classifying cancerous cells
 present in a human tumour, particularly in solid tumours, e.g. carcinomas
 and sarcomas, e.g. breast or colon cancers. The cDNA clones can be used
 for developing agents for the diagnosis and treatment of disorders
 involving unwanted cell proliferation, such as neoplasia, dysplasia or
 hyperplasia.
 Sequence 726 BP; 149 A; 157 C; 170 G; 198 T; 52 other;

Query Match 0.6%; Score 18; DB 21; Length 726;
 Best Local Similarity 100.0%; Pred. No. 57;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

227 cctgcaggtgtgtggcgc 244
 |||||
 60 cctgcaggtgtgtggcgc 77

RESULT 11
 248812
 ID 248812 standard; cDNA; 1040 BP.

AC 248812;

21-MAR-2000 (first entry)

Soybean inositol 1,3,4-triphosphate 5/6-kinase coding sequence.

Inositol 1,3,4-triphosphate 5/6-kinase; phytic acid; genetic mapping;
 myo-inositol 1,2,3,4,5,6-hexaphosphate; biosynthetic enzyme; pyruvate;
 animal feed; ss.

Glycine max.

WO9955879-A1.

04-NOV-1999.

22-APR-1999; 99WO-US08790.

24-APR-1998; 98US-0082960.

(DUPO) DU PONT DE NEMOURS & CO E.

Cahoon RE, Carlson TJ, Hitz WD, Pearlstein RW;

WPI; 2000-072179/06.

1X WPI; 1999-288272/24.
 2R P-PSDB; W85718.
 3X
 4X New polynucleotides encoding secreted human proteins
 5X
 6X Claim 14; Page 101-102; 136pp; English.
 7X
 8X The new human secreted proteins are encoded by polynucleotides
 9C obtained from human placenta, adult testes, fetal kidney, fetal
 10C brain, adult brain, adult brain and adult blood cDNA libraries.
 11C The polynucleotides and proteins are predicted to have biological
 12C activities which would make them suitable for treating, preventing or
 13C ameliorating medical conditions in humans and animals. Suggested
 14C activities include nutritional activity, cytokine and cell
 15C proliferation/differentiation activity, immune stimulating (e.g. as
 16C vaccines) or suppressing activity, haematopoiesis regulating
 17C activity, tissue growth activity, activin/inhibin activity,
 18C chemotactic/chemokinetic activity, haemostatic and thrombolytic
 19C activity, receptor/ligand activity, anti-inflammatory activity,
 20C cadherin/tumour invasion suppressor activity, and tumour inhibition
 21C activity. The polynucleotides are also stated to be useful for gene
 22C therapy. The sequences are identified by a secretory leader
 23C sequence motif in the polynucleotide and it is thought that the
 24C encoded proteins have biological activity by virtue of their secreted
 25C nature. This clone was designated AC222_1. A probe for this clone is
 26C described in X08698.
 27X
 28X Sequence 1626 BP; 560 A; 327 C; 291 G; 443 T; 5 other;
 29X
 30X
 31X
 32X
 33X
 34X
 35X
 36X
 37X
 38X
 39X
 40X
 41X
 42X
 43X
 44X
 45X
 46X
 47X
 48X
 49X
 50X
 51X
 52X
 53X
 54X
 55X
 56X
 57X
 58X
 59X
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 69X
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 71X
 72X
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 74X
 75X
 76X
 77X
 78X
 79X
 80X
 81X
 82X
 83X
 84X
 85X
 86X
 87X
 88X
 89X
 90X
 91X
 92X
 93X
 94X
 95X
 96X
 97X
 98X
 99X
 100X

PS Disclosure; Page 18-19; 29pp; English.
 CC This sequence is the coding sequence for an example of the inhibitor of
 CC the invention (the encoded protein is not given in the specification).
 CC The inhibitor is a Kex2 proteinase family enzyme inhibitor with a
 CC molecular weight of 11,500. The inhibitor/protein (termed kexstatin) is
 CC expected to have pharmaceutical and pesticidal applications.
 CC
 CC Sequence 2186 BP; 297 A; 827 C; 780 G; 282 T; 0 other;
 SQ
 Query Match 0.6%; Score 18; DB 19; Length 2186;
 Best Local Similarity 100.0%; Pred. No. 55;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1652 ggtcctgggcaccctggc 1669
 Db 1518 ggtcctgggcaccctggc 1535
 RESULT 15
 X20537/c
 ID X20537 standard; DNA; 2450 BP.
 AC X20537;
 XX
 XX 05-MAY-1999 (first entry)
 DE
 DE Polynucleotide sequence from the genome of Treponema pallidum.
 KW Treponema pallidum infection; syphilis; Borrelia infection; animal;
 KW enzyme production; ds.
 XX
 OS Treponema pallidum.
 XX
 PN WO9859034-A2.
 PD 30-DEC-1998.
 XX
 PF 23-JUN-1998; 98WO-US13041.
 XX
 PR 24-JUN-1997; 97US-0050667.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 PI Fraser CM;
 XX
 DR WPI; 1999-081273/07.
 XX
 PT New isolated Treponema pallidum nucleic acids - used to develop
 PT products for the detection, diagnosis, characterisation, prevention
 PT and therapy of T. pallidum infections, particularly syphilis
 XX
 PS Claim 1; Page 408-410; 1150pp; English.
 XX
 CC X20500-21243 represent polynucleotide sequences from the genome of
 CC Treponema pallidum. The sequences can be used for detection,
 CC diagnosis, characterisation, prevention and therapy for T. pallidum
 CC infections, particularly syphilis. They can also be used for detecting
 CC diseases related to Borrelia infections in animals, and for the
 CC production of biosynthetic products such as enzymes.
 XX
 XX Sequence 2450 BP; 553 A; 643 C; 631 G; 617 T; 6 other;
 SQ
 Query Match 0.6%; Score 18; DB 20; Length 2450;
 Best Local Similarity 100.0%; Pred. No. 55;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2305 tctgcttggagacttc 2322
 Db 941 TCTGCTTTGGAGACTTC 924

(BIOM-) BIOMOLECULAR ENG RES INST.
 Kikuchi N, Oda K, Shibano Y;
 WPI; 1998-044337/05.
 Kex2 protease inhibitor protein - with potential pharmaceutical and
 pesticidal applications

[illegible]

```

R 29-APR-1998; 98US-0083558.
R 29-APR-1998; 98US-0083559.
R 30-APR-1998; 98US-0083742.
R 05-MAY-1998; 98US-0084366.
R 06-MAY-1998; 98US-0084414.
R 06-MAY-1998; 98US-0084441.
R 07-MAY-1998; 98US-0084598.
R 07-MAY-1998; 98US-0084600.
R 07-MAY-1998; 98US-0084627.
R 07-MAY-1998; 98US-0084637.
R 07-MAY-1998; 98US-0084639.
R 07-MAY-1998; 98US-0084640.
R 07-MAY-1998; 98US-0084643.
R 13-MAY-1998; 98US-0085323.
R 13-MAY-1998; 98US-0085338.
R 13-MAY-1998; 98US-0085339.
R 15-MAY-1998; 98US-0085573.
R 15-MAY-1998; 98US-0085579.
R 15-MAY-1998; 98US-0085580.
R 15-MAY-1998; 98US-0085582.
R 15-MAY-1998; 98US-0085689.
R 15-MAY-1998; 98US-0085697.
R 15-MAY-1998; 98US-0085700.
R 15-MAY-1998; 98US-0085704.
R 18-MAY-1998; 98US-0086023.
R 22-MAY-1998; 98US-0086392.
R 22-MAY-1998; 98US-0086414.
R 22-MAY-1998; 98US-0086430.
R 22-MAY-1998; 98US-0086486.
R 28-MAY-1998; 98US-0087098.
R 28-MAY-1998; 98US-0087106.
R 28-MAY-1998; 98US-0087208.
R 30-JUL-1998; 98US-0094651.
R 11-SEP-1998; 98US-0100038.
R
R (GETH ) GENENTECH INC.
R
R Wood WI, Goddard A, Gurney A, Yuan J, Baker KP, Chen J;
R
R WPI; 1999-551358/46.
R P-PSDB; Y41686.
R
R New secreted and transmembrane polypeptides and their polynucleotides,
R useful for treating blood coagulation disorders, cancers and cellular
R adhesion disorders -
R
R Claim 2; Fig 3; 530pp; English.
R
R The present invention describes secreted and transmembrane polypeptides
R and their polynucleotides. The nucleotide sequences are useful as
R sources of probes, primers, for chromosome mapping, and for generation
R of antisense sequences. They can also be used to create transgenic
R animals. The proteins can be used to treat a variety of diseases and
R disorders, depending on their function. Diseases that may be treated
R include blood coagulation disorders, cancers and cellular adhesion
R disorders. They may also be used to raise antibodies. Z33891 to
R Z34338, and Y41685 to Y41774 represent polynucleotide and polypeptide
R sequence given in the exemplification of the present invention.
R
R Sequence 2945 BP; 703 A; 776 C; 705 G; 761 T; 0 other;
R
R
R Query Match 0.6%; Score 18; DB 20; Length 2945;
R Best Local Similarity 100.0%; Pred. No. 55;
R Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
R
R Oy 872 cattgtctgtcaagga 889
R |||||||
R Db 193 cattgtctgtcaagga 210
R
R RESULT 18
R -09473/c
R
R 29-APR-1998; 98US-0083558.
R 29-APR-1998; 98US-0083559.
R 30-APR-1998; 98US-0083742.
R 05-MAY-1998; 98US-0084366.
R 06-MAY-1998; 98US-0084414.
R 06-MAY-1998; 98US-0084441.
R 07-MAY-1998; 98US-0084598.
R 07-MAY-1998; 98US-0084600.
R 07-MAY-1998; 98US-0084627.
R 07-MAY-1998; 98US-0084637.
R 07-MAY-1998; 98US-0084639.
R 07-MAY-1998; 98US-0084640.
R 07-MAY-1998; 98US-0084643.
R 13-MAY-1998; 98US-0085323.
R 13-MAY-1998; 98US-0085338.
R 13-MAY-1998; 98US-0085339.
R 15-MAY-1998; 98US-0085573.
R 15-MAY-1998; 98US-0085579.
R 15-MAY-1998; 98US-0085580.
R 15-MAY-1998; 98US-0085582.
R 15-MAY-1998; 98US-0085689.
R 15-MAY-1998; 98US-0085697.
R 15-MAY-1998; 98US-0085700.
R 15-MAY-1998; 98US-0085704.
R 18-MAY-1998; 98US-0086023.
R 22-MAY-1998; 98US-0086392.
R 22-MAY-1998; 98US-0086414.
R 22-MAY-1998; 98US-0086430.
R 22-MAY-1998; 98US-0086486.
R 28-MAY-1998; 98US-0087098.
R 28-MAY-1998; 98US-0087106.
R 28-MAY-1998; 98US-0087208.
R 30-JUL-1998; 98US-0094651.
R 11-SEP-1998; 98US-0100038.
R
R (GETH ) GENENTECH INC.
R
R Wood WI, Goddard A, Gurney A, Yuan J, Baker KP, Chen J;
R
R WPI; 1999-551358/46.
R P-PSDB; Y41686.
R
R New secreted and transmembrane polypeptides and their polynucleotides,
R useful for treating blood coagulation disorders, cancers and cellular
R adhesion disorders -
R
R Claim 2; Fig 3; 530pp; English.
R
R The present invention describes secreted and transmembrane polypeptides
R and their polynucleotides. The nucleotide sequences are useful as
R sources of probes, primers, for chromosome mapping, and for generation
R of antisense sequences. They can also be used to create transgenic
R animals. The proteins can be used to treat a variety of diseases and
R disorders, depending on their function. Diseases that may be treated
R include blood coagulation disorders, cancers and cellular adhesion
R disorders. They may also be used to raise antibodies. Z33891 to
R Z34338, and Y41685 to Y41774 represent polynucleotide and polypeptide
R sequence given in the exemplification of the present invention.
R
R Sequence 2945 BP; 703 A; 776 C; 705 G; 761 T; 0 other;
R
R
R Query Match 0.6%; Score 18; DB 20; Length 2945;
R Best Local Similarity 100.0%; Pred. No. 55;
R Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
R
R Oy 872 cattgtctgtcaagga 889
R |||||||
R Db 193 cattgtctgtcaagga 210
R
R RESULT 18
R -09473/c
R
R Z09473 standard; DNA; 4120 BP.
R
R Z09473;
R
R 02-NOV-1999 (first entry)
R
R Human RNA helicase p135 DNA #2.
R
R DEAD protein; insect cell vector; DEAD-superfamily; RNA helicase;
R DNA helicase; cancer research; cell line; inflammation; apoptosis;
R drug; anticancer; antiviral; p135; ds.
R
R Homo sapiens.
R
R WO9941390-A2.
R
R 19-AUG-1999.
R
R 01-FEB-1999; 99WO-EP00829.
R
R 12-FEB-1998; 98DE-1005781.
R
R (AVET ) AVENTIS RES & TECHNOLOGIES GMBH & CO KG.
R
R Boehnisch B, Gallert K, Huels C, Muelner S;
R
R WPI; 1999-527373/44.
R
R New insect cell vector containing the sequence encoding a
R DEAD-superfamily protein, particularly a nucleic acid helicase, used
R e.g. for identifying potential pharmaceuticals
R
R Disclosure; Page 38-40; 43pp; German.
R
R This invention describes the construction of a novel insect cell vector
R (A) which contains a nucleic acid (I) that codes for a protein (II) of
R the DEAD-superfamily. (A), and recombinant insect viruses derived from
R them, are used to express recombinant (II), particularly RNA and DNA
R helicases. (II) are potentially useful for: (a) production of cell lines
R for research into cancer, inflammation and apoptosis, or for clarifying
R the mechanism of action of drugs, and (b) to identify pharmaceutical
R activity in known compounds, e.g. anticancer and antiviral activities.
R (II), which are difficult to express in bacteria and yeast, are expressed
R at high level in insect cells, e.g. 300-400 mg per 109 cells. This
R sequence encodes a human RNA-helicase p135 protein which is used in the
R description of the method of the invention.
R
R Sequence 4120 BP; 1099 A; 1021 C; 1236 G; 764 T; 0 other;
R
R
R Query Match 0.6%; Score 18; DB 20; Length 4120;
R Best Local Similarity 100.0%; Pred. No. 55;
R Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
R
R Oy 1338 aggaggaggtgacagg 1355
R |||||||
R Db 809 AGGAGGAGTGCACAGG 792
R
R RESULT 19
R V70354
R
R V70354 standard; DNA; 6139 BP.
R
R V70354;
R
R 09-FEB-1999 (first entry)
R
R Coding strand of native genomic hK2.
R
R Prostate cancer; detection; hK2; hK1; hK3; pHK2; tissue kallikrein;
R pphK2; prostate-specific glandular kallikrein protein; PSA; human;
R prostate-specific antigen; ss.
R
R

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CS Homo sapiens.
 XX WO9846795-A1.
 XX
 XX 22-OCT-1998.
 XX
 XX 09-APR-1998; 98WO-US07027.
 XX
 XX 11-APR-1997; 97US-0843076.
 XX
 XX (BAYU) BAYLOR COLLEGE MEDICINE.
 XX (MAYO-) MAYO FOUNDATION.
 XX
 XX Slawin KM, Tindall DJ, Young CYF;
 XX
 XX WPI; 1998-594592/50.
 XX
 XX Detection of human kallikrein 2 RNA - by reverse transcription and
 XX amplification by PCR, for detecting, monitoring and staging of
 XX prostate cancer
 XX
 XX Disclosure: Page 78-80; 90pp; English.
 XX
 XX The present invention describes a diagnostic method for detecting human
 XX kallikrein 2 (hk2) DNA. The method comprises: (a) contacting DNA obtained
 XX by reverse transcription (RT) of RNA from a human physiological sample
 XX which comprises cells suspected of containing hk2 RNA with at least 2
 XX oligonucleotides to amplify the DNA by PCR to yield amplified hk2 DNA,
 XX where the conditions amplify the DNA obtained by RT of RNA from at least
 XX one cell containing hk2 in a sample which comprises at least 107 to 109
 XX cells; and (b) detecting the presence of the amplified hk2 DNA. The
 XX method can be used for detecting, monitoring the progression of and
 XX pathologically staging prostate cancer. The present sequence represents
 XX the coding strand of native genomic hk2.
 XX
 XX Sequence 6139 BP; 1233 A; 1875 C; 1595 G; 1436 T; 0 other;
 XX
 XX
 XX Query Match 0.6%; Score 18; DB 19; Length 6139;
 XX Best Local Similarity 100.0%; Pred. No. 54;
 XX Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX
 XX Y 1048 cagatgccccctggcct 1065
 XX ||||||||||||||||
 XX 3041 cagatgccccctggcct 3058
 XX
 XX RESULT 20
 XX 123903/C
 XX Z23903 standard; DNA; 49999 BP.
 XX
 XX Z23903;
 XX
 XX 25-JAN-2000 (first entry)
 XX
 XX Human LOBO homologue genomic DNA fragment 5.
 XX
 XX LOBO; long bones; bone development; bone extension; skull; osteopathic;
 XX diagnostic; pharmaceutical; gene therapy; transgenic animal; disease;
 XX spondyloepiphyseal dysplasia; achondroplasia; human; ds.
 XX
 XX Homo sapiens.
 XX
 XX WO9950284-A2.
 XX
 XX 07-OCT-1999.
 XX
 XX 26-MAR-1999; 99WO-EP02055.
 XX
 XX 27-MAR-1998; 98DE-1013799.
 XX
 XX (ROSE/) ROSENTHAL A.
 XX
 XX
 XX Rosenthal A, Rump A, Hess J, Aigner T, Wirth T;
 XX WPI; 1999-601320/51.
 XX
 XX Nucleic acids encoding proteins which influence bone development,
 XX useful for treating and studying bone disorders -
 XX
 XX Example 3; Page 328-356; 391pp; German.
 XX
 XX This invention describes novel nucleic acids (I; designated LOBO (long
 XX bones)) encoding proteins influencing bone development in mammals. The
 XX proteins of the invention reduce and/or inactivate bone extension (i.e.
 XX development), with exception of the skull and have osteopathic activity.
 XX The nucleic acid molecules, proteins and antibodies can be used in
 XX diagnostic or pharmaceutical compounds e.g. for gene therapy. The methods
 XX and nucleic acid molecules, etc. are useful for production of transgenic
 XX animals, especially a transgenic mouse for the study of diseases
 XX associated with bone development, e.g. spondyloepiphyseal dysplasia and
 XX achondroplasia. This sequence encodes a human LOBO protein described
 XX in the method of the invention.
 XX
 XX Sequence 49999 BP; 10983 A; 13723 C; 13439 G; 11854 T; 0 other;
 XX
 XX
 XX Query Match 0.6%; Score 18; DB 20; Length 49999;
 XX Best Local Similarity 100.0%; Pred. No. 52;
 XX Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX
 XX Y 2740 gggccagagggctggccac 2757
 XX ||||||||||||||||
 XX Db 14820 GGGCCAGGAGGCTGCCAC 14803
 XX
 XX RESULT 21
 XX Q54684
 XX ID Q54684 standard; DNA; 21 BP.
 XX
 XX AC Q54684;
 XX
 XX DT 05-JUL-1994 (first entry)
 XX
 XX DE C kappa exon primer.
 XX
 XX KW Germ line; stem cell; blastocyst; implantation; embryonic;
 XX KW electroporation; kappa; constant; exon; ss.
 XX
 XX OS Synthetic.
 XX
 XX PN DE4228162-C.
 XX
 XX PD 13-JAN-1994.
 XX
 XX PF 25-AUG-1992; 92DE-4228162.
 XX
 XX PR 25-AUG-1992; 92DE-4228162.
 XX
 XX PA (RAJE/) RAJEWSKY K.
 XX PA (KOEL-) KOELNER VER FORDERUNG IMMUNOLOGIE.
 XX
 XX PI Rajewsky K, Zou Y;
 XX
 XX DR WPI; 1994-008862/02.
 XX
 XX Homologous replacement of gene in mammalian germ line - by
 XX transfecting embryonic stem cell with labelled recombination
 XX vehicle, selection and incorporating into blastocyst(s) for
 XX implantation, esp. for prodn. of humanised antibodies in mice
 XX
 XX Example; Column 4; 7pp; German.
 XX
 XX DSM 7211 is made by (1) inserting a fragment of pc-2 (contg.
 XX the C kappa exon) into pTZ-19(R); (2) inserting a 1.2 kb
 XX fragment of pHC kappa (contg. the intron enhancer element);

Human 5' EST isolated from a cDNA library SEQ ID NO:402.

Human; 5' EST; expressed sequence tag; secreted protein; diagnosis; gene therapy; chromosome mapping; upstream regulatory sequence; forensic; location; development; protein synthesis; stability; regulation; identification; ss.

Homo sapiens.

WO9953051-A2.

21-OCT-1999.

09-APR-1999; 99WO-IB00712.

09-APR-1998; 98US-0057719.

28-APR-1998; 98US-0069047.

(GEST) GENSET.

Dumas Milne Edwards J, Duclert A, Giordano J;

WPI; 2000-038446/03.

P-PSDB; Y65029.

Novel secreted protein 5' expressed sequence tag sequences used in diagnostic, forensic, gene therapy, and chromosome mapping procedures

Claim 1; Page 382; 837pp; English.

Z42265 to Z43075 represent novel 5' expressed sequence tag (EST) sequences, corresponding to human secreted proteins. Y64551 to Y65438 represent the EST-related proteins corresponding to Z42265 to Z43052. The 5' ESTs can be used for producing secreted human gene products. They can be used to identify and isolate 5' untranslated regions (UTRs) and upstream regulatory regions which control the location, development stage, rate, and quantity of protein synthesis, as well as stability of mRNA. The ESTs are also useful as probes for chromosome mapping, and to obtain full length cDNA clones. The ESTs can also be used in forensic procedures to identify individuals, or in diagnostic procedures to identify individuals having genetic diseases resulting from abnormal gene expression. The products may also be used in gene therapy protocols. The nucleic acids encoding signal peptides can be used for directing extracellular secretion of a polypeptide or the insertion of a polypeptide into a membrane, or importing a polypeptide into a cell. The proteins encoded by the EST sequences may be useful in treating a variety of human conditions. Secreted proteins have therapeutic value, and the identification of new secreted proteins is valuable. Z42249 to Z42264 and Y64644 to Y64650 represent sequences used in the exemplification of the present invention.

Sequence 330 BP; 76 A; 102 C; 86 G; 65 T; 1 other;

Query Match 0.6%; Score 17; DB 21; Length 330;

Best Local Similarity 100.0%; Pred. No. 1.8e+02;

Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1219 acctcatccaccggac 1235

|||||

48 ACCTCATCCACCGGAC 32;

RESULT 27

X24993/c

X24993 standard; cDNA; 332 BP.

X24993;

05-JUL-1999 (first entry)

Murine Bcl-2 interacting mediator of cell death Bim-S cDNA.

Bim-S; Bcl-2 interacting mediator of cell death; apoptosis; cell cycle; mouse; cancer; autoimmune disease; splice variant; degenerative disease; therapy; contraceptive; isoform; ss.

Mus musculus.

WO9914321-A1.

25-MAR-1999.

17-SEP-1998; 98WO-AU00772.

24-SEP-1997; 97AU-0009373.

17-SEP-1997; 97AU-0009263.

(HALL-) HALL INST MEDICAL RES WALTER & ELIZA.

Adams J, Cory S, Huang DCS, O'Connor L, O'Reilly L;

Puthalakath H, Strasser A;

WPI; 1999-244030/20.

P-PSDB; W98154.

New isolated member of the Bcl-2 family, Bim used in, e.g. cancer treatment

Claim 3; Page 92; 145pp; English.

The present sequence encodes the short form (S) of murine Bim, or Bcl-2 interacting mediator of cell death (see W98154), a novel member of the Bcl-2 family that is capable of inducing cell death (apoptosis) and which acts as a death-ligand for certain members of the pro-survival Bcl-2 family. Bim is a BH3-only protein, as the only BH3-only protein for which splice variants exist. These result in the expression of a variety of isoforms, i.e. Bim-S, Bim-L and Bim-EL (see W98154-56). cDNAs encoding these murine Bim isoforms were obtained from a T lymphoma cDNA library using human recombinant Bcl-2 protein. The murine Bim gene has been mapped to chromosome 2 at bands F3-G. Human Bim-L and Bim-EL isoforms have also been identified (see W98157-58). Binding the dynein light chain was shown to regulate the pro-apoptotic activity of Bim. Bim-S, the splice variant which does not bind to dynein light chain, is a much more potent killer than either Bim-L or Bim-EL. The invention provides variants (see W98159-68) of murine and human Bim-L or Bim-EL that cannot bind, couple or otherwise associate with a dynein light chain. The identification of Bim permits the identification and rational design of a range of products for use in therapy, diagnosis, antibody generation and involving modulation of physiological cell death. These therapeutic molecules may act as either antagonists or agonists of Bim's function and will be useful in cancer, autoimmune or degenerative disease therapy. Increased Bim expression or Bim activity is useful, e.g. for treatment or prophylaxis in conditions such as cancer and deletion of autoreactive lymphocytes in autoimmune disease. Decreased Bim expression of Bim activity is useful in regulating inhibition or prevention of cell death or degeneration such as under cytotoxic conditions during e.g. gamma-irradiation and chemotherapy or during HIV/AIDS or other viral infections, ischemia, myocardial infarction, hypoxia, degenerative diseases or for prolonging the survival of cells being transplanted for treatment of disease. Since Bim is expressed in germ cells, modulating Bim expression or Bim activity is useful, e.g. as a contraceptive or method of sterilization by preventing generation of fertile sperm.

Sequence 332 BP; 87 A; 85 C; 91 G; 69 T; 0 other;

Query Match 0.6%; Score 17; DB 20; Length 332;

Best Local Similarity 100.0%; Pred. No. 1.8e+02;

Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
654 aggcctctcagcaggct 670
|||||
75 AGGCTCTCAGCAGGCT 59

RESULT 28
124629
T24629 standard; cDNA to mRNA; 347 BP.
T24629;
07-OCT-1996 (first entry)
Human gene signature HUMGS065689.
Gene signature: messenger RNA; mRNA; relative abundance; frequency;
human; cloning; mapping; non-biased library; diagnosis; detection;
cell typing; abnormal cell function; ss.
Homo sapiens.
W09514772-A1.
01-JUN-1995.
11-NOV-1994; 94WO-JP01916.
12-NOV-1993; 93JP-0355504.
(MATS/) MATSUBARA K.
(OKUB/) OKUBO K.
Matsubara K, Okubo K;
WPI: 1995-206931/27.
Identifying gene signatures in 3'-directed human cDNA library - e.g.
for diagnosis of abnormal cell function, by preparing cDNA that
reflects relative abundance of corresp. mRNA in specific human
tissues
Claim 1; Page 1655; 2245pp; Japanese.
A single-stranded DNA (or its complementary strand or the corresp.
double-stranded DNA) which comprises one of the 7837 "GS" sequences
given in T19001-T26837 and which is able to hybridise to part of
human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature)
sequences were obtained from 3'-directed cDNA libraries prepared
from various human tissues; synthesis of cDNA was initiated from the
3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-
untranslated sequence is unique to a particular mRNA species, almost
all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library
is constructed so as to reflect accurately the relative abundance of
different mRNAs in the particular tissue from which it was derived.
The appearance frequency of a given GS in a cDNA library can be
determined (esp. using primers and probes derived from the GS
sequences) as a means of diagnosing abnormal cell function or for
recognising different cell types.
Sequence 347 BP; 61 A; 102 C; 108 G; 75 T; 1 other;
Query Match 0.6%; Score 17; DB 16; Length 347;
Best Local Similarity 100.0%; Pred. No. 1.8e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
1 1336 ccaggaggagtgagcag 1352
|||||
15 ccaggaggagtgagcag 31

RESULT 29
11005/c
654 aggcctctcagcaggct 670
|||||
75 AGGCTCTCAGCAGGCT 59

RESULT 30
X24994/c
X24994 standard; cDNA; 422 BP.
XX
```

ID X41005 standard; cDNA; 369 BP.
XX X41005;
AC
XX
DT 18-JUN-1999 (first entry)
XX
DE Human secreted protein 5' EST SEQ ID NO: 217.
XX
KW Human; secreted protein; EST; expressed sequence tag; diagnosis;
forensic; gene therapy; chromosome mapping; signal peptide;
upstream regulatory sequence; cytokine activity; cell proliferation;
differentiation; haematopoiesis regulation; tissue growth regulation;
reproductive hormone regulation; chemotactic; chemokinetic; haemostatic;
thrombolytic; anti-inflammatory; tumour inhibition; ds.
OS Homo sapiens.
XX
PN W09906554-A2.
XX
PD 11-FEB-1999.
XX
PF 31-JUL-1998; 98WO-IB01238.
XX
PR 01-AUG-1997; 97US-0905134.
XX
PA (GEST) GENSET.
XX
PI Duclert A, Dumas Milne Edwards J, Lacroix B;
XX
DR WPI: 1999-153784/13.
DR P-PSDB; Y12172.
XX
PT New nucleic acids encoding human secreted proteins - obtained from
PT cDNA libraries prepared from kidney, fetal kidney, dystrophic
PT muscle, muscle and heart tissue
XX
PS Claim 1; Page 314-315; 622pp; English.
XX
CC X40826 to X41093 represent 5' expressed sequence tags (ESTs) for human
secreted proteins, and encode the proteins given in Y01602 and
Y11994 to Y12260, respectively. The proteins given represent the signal
peptide and an N-terminal fragment of a secreted protein. The nucleic
acid sequences can be used for producing secreted human gene products.
CC They can also be used to develop products for diagnosis and therapy.
CC The proteins obtained may have cytokine activity, cell
proliferation/differentiation activity, haematopoiesis regulating
activity, tissue growth regulating activity, reproductive hormone
regulating activity, chemotactic/chemokinetic activity, haemostatic and
thrombolytic activity, receptor/ligand activity, anti-inflammatory
activity, tumour inhibition activity or other activities. The products
can be used in forensic, gene therapy and chromosome mapping procedures.
CC The sequences can also be used for obtaining corresponding promoter
sequences. The nucleic acids encoding the signal peptide can be used
for directing extracellular secretion of a polypeptide or the insertion
of a polypeptide into a membrane, or importing a polypeptide into
a cell.
XX
SQ Sequence 369 BP; 57 A; 128 C; 98 G; 84 T; 2 other;
Query Match 0.6%; Score 17; DB 20; Length 369;
Best Local Similarity 100.0%; Pred. No. 1.8e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2501 gccacaggcccaagaagg 2517
|||||
DB 320 GCCACAGGCCCAAGAAGG 304
RESULT 30
X24994/c
X24994 standard; cDNA; 422 BP.
ID
XX

32052/C
 C A32052 standard; DNA; 431 BP.
 XX
 C A32052;
 XX
 C 05-JUL-2000 (first entry)
 XX
 C Plant microsatellite marker #1013.
 XX
 C Plant microsatellite sequence; core repeat sequence; detection; probe;
 XX DNA polymorphism; genome mapping; physical mapping; fingerprinting;
 XX variety identification; genetic variability evaluation; primer; ss.
 XX
 C Pinus radiata.
 XX
 C WO9967421-A1.
 XX
 C 29-DEC-1999.
 XX
 C 25-JUN-1999; 99WO-NZ00092.
 XX
 C 25-JUN-1998; 98US-0105307.
 XX
 C (GENE-) GENESIS RES & DEV CORP LTD & FLETCHER.
 XX (FLET-) FLETCHER CHALLENGE FORESTS LTD.
 XX
 C Havukkala IJ, Bloksberg LN, Glenn M;
 XX
 C WPI; 2000-116958/10.
 XX
 C New plant microsatellite markers and associated flanking species for
 XX the detection of polymorphic genetic markers -
 XX
 C Claim 1; Page 374; 392pp; English.
 XX
 C Sequences A31040-A32093 represent novel plant microsatellite sequences
 XX and associated flanking species. The sequences comprise a central core
 XX repeat sequence, especially selected from the sequences A32094-A32096
 XX with left and right flanking sequences. The polynucleotide sequences
 XX can be used in the detection of DNA polymorphisms, in genome mapping,
 XX in physical mapping, in positional cloning of genes, in variety
 XX identification and in evaluation of genetic variability within and
 XX between plant tissues, populations, cultivars, species and species
 XX groups. They may also be used to design hybridization probes for
 XX oligonucleotide fingerprinting and library screening and to design
 XX primers for microsatellite-primed PCR. Microsatellite markers are
 XX useful to locate specific economically useful genes in plant genomes.
 XX
 C Sequence 431 BP; 129 A; 78 C; 71 G; 152 T; 1 other;
 XX
 C Query Match 0.6%; Score 17; DB 21; Length 431;
 XX Best Local Similarity 100.0%; Pred. No. 1.8e+02;
 XX Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX
 C 2021 tggctggaagtgtct 2037
 XX ||||||||||||||||
 C 262 TGCTGGAAAGTGTCT 246
 XX
 C RESULT 33
 XX V29360/C
 C V29360 standard; DNA; 559 BP.
 XX
 C V29360;
 XX
 C 31-JUL-1998 (first entry)
 XX
 C Calcium ion channel alpha1 subunit exons 33, 34/intron; partial sequence.
 XX
 C Calcium ion channel alpha1 subunit; human; episodic ataxia type 2;
 XX familial hemiplegic migraine; FHM; EA-2; treatment; diagnosis;
 XX exon; intron; ss.

XX Homo sapiens.
 OS
 XX Key
 FH intron
 FT Location/Qualifiers
 FT 1..156
 FT /*tag= a
 FT /number= 32
 FT /note= "partial sequence"
 FT 157..222
 FT /*tag= b
 FT /number= 33
 FT 223..394
 FT /*tag= c
 FT /number= 33
 FT 395..509
 FT /*tag= d
 FT /number= 34
 FT 510..559
 FT /*tag= e
 FT /number= 34
 FT /note= "partial sequence"
 FT
 XX EP834561-A1.
 PN
 XX 08-APR-1998.
 PD
 XX 27-SEP-1996; 96EP-0202707.
 PF
 XX 27-SEP-1996; 96EP-0202707.
 PR
 XX (UYLE-) RIJKSUNIV LEIDEN.
 PA
 XX Ferrari MD, Frants RRIE, Ophoff RA, Terwindt GM;
 PI
 XX WPI; 1998-195461/18.
 DR
 XX
 XX New human nucleic acid associated with migraine and episodic ataxia
 PT type 2 - useful for diagnosis and development of specific treatments
 PT
 XX Disclosure; Fig 1; 157pp; English.
 PS
 XX Sequences shown in V29330 to V29371 represent the 47 exons and flanking
 CC intronic sequences containing the complete coding region of the human
 CC calcium ion channel alpha 1 subunit gene and part of untranslated
 CC sequences. The channel is related to familial hemiplegic migraine (FHM)
 CC and/or episodic ataxia type 2 (EA-2) and is derived from, related to or
 CC associated with a gene present in humans on chromosome 19p13.1-13.2. The
 CC encoding gene can be used to localise or identify genes related to
 CC episodic neurological disorders, specifically migraine, FHM or EA-2, but
 CC also epilepsy. The isolated or a recombinant nucleic acid can also be
 CC used to distinguish between alleles of the corresponding gene. Cells and
 CC animals containing recombinant expression vectors comprising the nucleic
 CC acid can be useful in study, development and treatment of migraine, FHM,
 CC EA-2 and epilepsy. Proteins or peptides encoded by the nucleic acid and
 CC natural or synthetic antibodies against the proteins can be used to
 CC diagnose FHM, EA-2, migraine and other neurological conditions associated
 CC with cation channel dysfunction.
 CC
 XX Sequence 559 BP; 119 A; 157 C; 160 G; 120 T; 3 other;
 SX
 C Query Match 0.6%; Score 17; DB 19; Length 559;
 XX Best Local Similarity 100.0%; Pred. No. 1.8e+02;
 XX Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX
 C 1207 aaaccagctcaacctc 1223
 XX ||||||||||||||||
 C 339 AAACCCAGCTCAACCTC 323
 XX
 C RESULT 34
 XX X24995/c
 C ID X24995 standard; cDNA; 590 BP.

XX X24995;
XX 05-JUL-1999 (first entry)
XX Murine Bcl-2 interacting mediator of cell death Bim-EL CDNA.
XX Bim-EL; Bcl-2 interacting mediator of cell death; apoptosis;
XX cell cycle; mouse; cancer; autoimmune disease;
XX degenerative disease; therapy; contraceptive; splice variant;
XX isoform; ss.
XX Mus musculus.
XX WO9914321-A1.
XX 25-MAR-1999.
XX 17-SEP-1998; 98WO-AU00772.
XX 24-SEP-1997; 97AU-0009373.
XX 17-SEP-1997; 97AU-0009263.
XX (HALL-) HALL INST MEDICAL RES WALTER & ELIZA.
XX Adams J, Cory S, Huang DCS, O'Connor L, O'Reilly L;
XX Puthalakath H, Strasser A;
XX WPI; 1999-244030/20.
XX P-PSDB; W98156.
XX New isolated member of the Bcl-2 family, Bim used in, e.g. cancer
XX treatment
XX Claim 3; Page 96-97; 145pp; English.
XX The present sequence encodes the extra long form (EL) of murine Bim,
XX or Bcl-2 interacting mediator of cell death (see W98156), a novel
XX member of the Bcl-2 family that is capable of inducing cell death
XX (apoptosis) and which acts as a 'death-ligand' for certain members
XX of the pro-survival Bcl-2 family. Bim is a BH3-only protein, as the
XX only Bcl-2 homology region which it encompasses is BH3. It is the
XX only BH3-only protein for which splice variants exist. These
XX result in the expression of a variety of isoforms, i.e. Bim-S,
XX Bim-L and Bim-EL (see W98154-56). cDNAs encoding these murine Bim
XX isoforms were obtained from a T lymphoma cDNA library using human
XX recombinant Bcl-2 protein. The murine Bim gene has been mapped to
XX chromosome 2 at bands F3-G. Human Bim-L and Bim-EL isoforms have
XX also been identified (see W98157-58). Binding the dynein light
XX chain was shown to regulate the pro-apoptotic activity of Bim.
XX Bim-S, the splice variant which does not bind to dynein light
XX chain, is a much more potent killer than either Bim-L or Bim-EL.
XX The invention provides variants (see W98159-68) of murine and human
XX Bim-L or Bim-EL that cannot bind, couple or otherwise associate
XX with a dynein light chain. The identification of Bim permits the
XX identification and rational design of a range of products for use
XX in therapy, diagnosis, antibody generation and involving modulation
XX of physiological cell death. These therapeutic molecules may act
XX as either antagonists or agonists of Bim's function and will be
XX useful in cancer, autoimmune or degenerative disease therapy.
XX Increased Bim expression or Bim activity is useful, e.g. for
XX treatment or prophylaxis in conditions such as cancer and deletion
XX of autoreactive lymphocytes in autoimmune disease. Decreased Bim
XX expression of Bim activity is useful in regulating inhibition or
XX prevention of cell death or degeneration such as under cytotoxic
XX conditions during e.g. gamma-irradiation and chemotherapy or during
XX HIV/AIDS or other viral infections, ischemia, myocardial infarction,
XX hypoxia, degenerative diseases or for prolonging the survival of
XX cells being transplanted for treatment of disease. Since Bim is
XX expressed in germ cells, modulating Bim expression or Bim activity
XX is useful, e.g. as a contraceptive or method of sterilization by
XX preventing generation of fertile sperm.

SQ Sequence 590 BP; 137 A; 178 C; 150 G; 125 T; 0 other;
Query Match 0.6%; Score 17; DB 20; Length 590;
Best Local Similarity 100.0%; Pred. No. 1.8e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 654 aggcctctcagcaggct 670
Db ||||||||||||||||
75 AGGCCTCTCAGCAGGCT 59
RESULT 35
V87198/C
ID V87198 standard; CDNA; 605 BP.
XX AC V87198;
XX 27-APR-1999 (first entry)
XX DE EST clone BN180.
XX KW Expressed sequence tag; secreted protein; haematopoiesis regulator;
XX tissue growth; activin; inhibin; tumour invasion suppressor; EST; human;
XX chemotaxis; chemokinesis; haemostasis; gene therapy; thrombolysis;
XX receptor; ligand; anti-inflammatory; tumour inhibitor; ds.
XX OS Homo sapiens.
XX PN WO9845435-A2.
XX PD 15-OCT-1998.
XX PF 10-APR-1998; 98WO-US06954.
XX PR 10-APR-1997; 97US-0835913.
XX PA (GENY) GENETICS INST INC.
XX PI Agostino MJ, Jacobs K, Lavallie ER, McCoy JM, Merberg D;
XX PI Racie LA, Spaulding V, Treacy M;
XX WPI; 1999-070076/06.
XX New polynucleotides encoding human secreted proteins - derived from
XX e.g. human blood, kidney, foetal lung, placenta, testes, brain,
XX ovary, pituitary, retina and colon cDNA libraries
XX Claim 1; Page 486; 633pp; English.
XX This sequence represents an expressed sequence tag (EST), and is a
XX polynucleotide of the invention. The polynucleotides of the invention are
XX all secreted EST sequences isolated from a variety of human tissue
XX sources. The EST sequences and proteins encoded by them are predicted to
XX have useful biological activities which would make them suitable for
XX treating, preventing or ameliorating medical conditions in humans and
XX animals, although no supporting data is given. Suggested activities
XX include nutritional activity, immune stimulating or suppressing activity,
XX haematopoiesis regulating activity, tissue growth activity,
XX activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
XX and thrombolytic activity, receptor/ligand activity, anti-inflammatory
XX activity, cadherin/tumour invasion suppressor activity, tumour inhibition
XX activity. The EST sequences are also stated to be useful for gene
XX therapy.
XX Sequence 605 BP; 149 A; 126 C; 194 G; 136 T; 0 other;
Query Match 0.6%; Score 17; DB 20; Length 605;
Best Local Similarity 100.0%; Pred. No. 1.8e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 31 gttttggggagacggg 47

212 GTTTGCTGGAGACGGG 196

RESULT 36
24979/C
X24979 standard; cDNA; 791 BP.

X24979;

05-JUL-1999 (first entry)

Clone GJ156 encoding TRAIN-R secreted form C-terminus.

TRAIN-R; receptor; human; tumour necrosis factor receptor;
agonist; antagonist; cancer; immunological disease; therapy;
cytostatic; ss.

Homo sapiens.

Key Location/Qualifiers

Intron 1..350
/*tag= a
exon 351..790
/*tag= b
CDS 352..444
/*tag= c
/*partial
/*product= "TRAIN-R secreted form C-terminus"
45..790
/*tag= d

WO9913078-A1.

18-MAR-1999.

11-SEP-1998; 98WO-US19030.

06-MAY-1998; 98US-0084422.

12-SEP-1997; 97US-0058631.

(BIOJ) BIOGEN INC.

Hession C, Tschopp J;

WPI; 1999-229238/19.

P-PSDB; W98147.

New cysteine-rich tumor necrosis factor receptor

Claim 1; Page 28; 30pp; English.

The present sequence includes an exon encoding the C-terminus (see W98147) of a soluble form of a novel human cysteine-rich tumour necrosis factor receptor family member termed TRAIN-R. It comprises clone GJ156, obtained from a Clontech human adult lung cDNA library. The encoded 30-amino acid C-terminal peptide is identical to amino acids 121-149 of the composite TRAIN-R protein given in W98146 and to amino acids 121-150 of the C-terminus of murine TRAIN-R short form (secreted protein, see W98144). The soluble protein is expected to inhibit signalling by the full-length TRAIN-R. Human TRAIN-R is expressed at low levels in every tissue and cell line tested thus far, with higher expression detected in heart, prostate, ovary, testis, peripheral blood lymphocytes, thyroid and adrenal gland. Cell death can be induced by administering an agent capable of inhibiting the binding of TRAIN-R to its ligand. A claimed method of treating, or reducing, the advancement, severity or effects of an immunological disease in a mammal comprises administering a pharmaceutical composition which comprises a TRAIN-R blocking agent, e.g. soluble TRAIN-R. TRAIN-R can be fused to an immunoglobulin to produce a fusion protein which may be targeted to various sites. It can be used in binding assays, and to identify antagonists and agonists. Anti-TRAIN-R antibodies can be used to reduce the

CC severity of an immune response or to treat cancer. TRAIN-R
CC blocking agents can also be used to reduce the severity or effects
CC of an immunological disease (all claimed).

SQ Sequence 791 BP; 202 A; 189 C; 165 G; 235 T; 0 other;

Query Match 0.6%; Score 17; DB 20; Length 791;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2130 gaagaggaagcagtgga 2146

Db 203 GAAGAGGAGCAGTGGA 187

RESULT 37

Z91823

ID Z91823 standard; DNA; 855 BP.

XX AC Z91823;

XX DT 02-JUN-2000 (first entry)

XX DE Streptococcus pneumoniae DNA sequence ID33.

XX KW Streptococcus pneumoniae infection; immunogen; antigen; diagnosis; AIDS;
KW bacterial pneumonia; asplenia; heart disease; lung disease; alcoholism;
KW kidney disease; diabetes; immunosuppressive disorder; otitis media;
KW pneumococcal septicaemia; sinusitis; meningitis; therapy; ss.

XX OS Streptococcus pneumoniae.

XX PN WO200006738-A2.

XX PD 10-FEB-2000.

XX PF 27-JUL-1999; 99WO-GB02452.

XX PR 27-JUL-1998; 98GB-0016336.

XX PR 19-MAR-1999; 99US-0125329.

XX PA (MICR-) MICROBIAL TECHNIQS LTD.

XX PI Le Page RWF, Wells JM, Hanniffy SB, Hansbro PM;

XX DR WPI; 2000-195301/17.

XX DR P-PSDB; Y81727.

XX PT Streptococcal proteins and polynucleotides useful for diagnosis,

XX PT treatment and prophylaxis of bacterial infections

XX PS Claim 2; Page 47-48; 76pp; English.

XX This sequence encodes a Streptococcus pneumoniae protein of the
CC invention. The proteins (or their homologues, derivatives and/or
CC fragments) are useful as immunogens or antigens. Immunogenic or antigenic
CC compositions comprising the proteins are useful as vaccines and also in
CC diagnostic assays. The sequences are useful for the detection or
CC diagnosis of S. pneumoniae infection, by contacting a sample to be tested
CC with them. Agents capable of antagonising, inhibiting or interfering with
CC the function of expression of the protein or polypeptide are useful in
CC medical compositions in the treatment or prophylaxis of S. pneumoniae
CC infection. As the sequences can be used to treat S. pneumoniae infection,
CC they can be used to treat bacterial pneumonia, which has high rates in
CC young children, the elderly, and in patients with predisposing conditions
CC such as asplenia, heart, lung and kidney disease, diabetes, alcoholism,
CC or with immunosuppressive disorders, especially AIDS. They can also be
CC used to treat pneumococcal septicaemia, otitis media, sinusitis, and
CC meningitis.

XX SQ Sequence 855 BP; 235 A; 173 C; 202 G; 245 T; 0 other;

Query Match 0.6%; Score 17; DB 21; Length 855;
 Best Local Similarity 100.0%; Pred. No. 1.7e+02;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 1947 gatttggagagatttca 1963
 |||||
 b 139 gatttggagagatttca 155

RESULT 38
 X40199
 X40199 standard; DNA; 1022 BP.
 X
 X40199;
 X
 X 02-JUL-1999 (first entry)
 X
 X MAGE-4 encoding gene.
 X
 X Cancer associated antigen; diagnosis; research; treatment; human;
 X breast cancer; colon cancer; gastric cancer; renal cancer; lung cancer;
 X prostate cancer; ss.
 X
 X Homo sapiens.
 X
 X WO9904265-A2.
 X
 X 28-JAN-1999.
 X
 X 15-JUL-1998; 98WO-US14679.
 X
 X 22-JUN-1998; 98US-0102322.
 X 17-JUL-1997; 97US-0896164.
 X 10-OCT-1997; 97US-0061599.
 X 10-OCT-1997; 97US-0061765.
 X 10-OCT-1997; 97US-0948705.
 X 11-OCT-1997; 97GB-0021697.
 X
 X (LUDW-) LUDWIG INST CANCER RES.
 X
 X Chen Y, Gout I, Gure A, O'Hare M, Obata Y, Old LJ;
 X Pfreundschuh M, Sahin U, Scanlan MJ, Stockert E;
 X Tureci O;
 X
 X WPI; 1999-132448/11.
 X P-PSDB; Y06998.
 X
 X New isolated cancer associated nucleic acids and polypeptides -
 X isolated using sera from cancer patients, used to develop products
 X for the diagnosis, monitoring or treatment of cancers
 X
 X Claim 67; Page 780; 787pp; English.
 X
 X The invention relates to a method for diagnosing a disorder characterised
 X by expression of a human cancer associated antigen precursor coded for by
 X a nucleic acid molecule (NAM). The method comprises: (a) contacting a
 X biological sample isolated from a subject with an agent that specifically
 X binds to the NAM, an expression product or a fragment of an expression
 X product complexed with an HLA molecule; and (b) determining the
 X interaction between the agent and the NAM or the expression product as a
 X determination of the disorder. The products and methods can be used in
 X the diagnosis, monitoring, research, or treatment of conditions
 X characterised by the expression of various cancer associated antigens.
 X The invention provides nucleic acid sequences and encoded polypeptides
 X which are cancer associated antigen precursors expressed in human breast
 X cancer, renal cancer, colon cancer, gastric cancer, prostate cancer and
 X lung cancer.

Sequence 1022 BP; 230 A; 273 C; 302 G; 217 T; 0 other;

Query Match 0.6%; Score 17; DB 20; Length 1022;

Best Local Similarity 100.0%; Pred. No. 1.7e+02;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1652 ggtctctggccacctgg 1668
 |||||
 Db 203 ggtctctggccacctgg 219

RESULT 39
 Q67866
 ID Q67866 standard; DNA; 1084 BP.
 XX
 AC Q67866;
 XX
 DT 22-MAR-1995 (first entry)
 XX
 DE H6/MAGE-1 expression cassette from pMAW037.
 XX
 KW Polymerase chain reaction; primer; amplify; NYVAC; ALVAC; recombinant;
 KW human; MAGE-1; melanoma-associated antigen; M22-E; testis; PT218RMAGE1;
 KW primary melanoma tumour cell; melanoma-derived cell line; tumour;
 KW poxvirus; antigenic response; immunological response; pathogen; ss.
 XX
 OS Synthetic.
 XX
 FH Key
 FT misc_feature 1..51
 FT /tag= a
 FT /note= "Flanking sequence"
 FT 52..178
 FT /tag= b
 FT /note= "Vaccinia H6 promoter"
 FT 179..1009
 FT /tag= c
 FT /product= MAGE-1
 FT 1010..1084
 FT /tag= d
 FT /note= "Flanking sequence"
 XX
 PN WO9416716-A.
 XX
 PD 04-AUG-1994.
 XX
 PF 21-JAN-1994; 94WO-US00888.
 XX
 PR 21-JAN-1993; 93US-0007115.
 PR 19-JAN-1994; 94US-0184009.
 XX
 PA (VIRO-) VIROGENETICS CORP.
 XX
 PI Cox WI, Paoletti E, Tartaglia J;
 XX
 DR WPI; 1994-263767/32.
 XX
 PT Attenuated recombinant virus used for cancer therapy - comprises
 PT DNA encoding cytokine and/or tumour associated antigen
 XX
 PS Example 16; Fig 20; 232pp; English.
 XX
 CC The sequences given in Q67865-66 represent expression cassettes
 CC containing the vaccinia H6 promoter and the human MAGE-1 gene which
 CC encodes human melanoma-associated antigen M22-E, in vCP235 and pMAW037,
 CC respectively. These sequences were used in the construction of NYVAC-1
 CC and ALVAC-based recombinant viruses containing the MAGE-1 gene. MAGE-1
 CC is expressed in primary melanoma tumour cells, melanoma-derived cell
 CC lines and certain tumours of non-melanoma origins but not in normal
 CC cells except in testis. A first PCR fragment containing the last 18 bp
 CC and the initial 24 nucleotides of the MAGE-1 gene was generated and
 CC ligated to a second PCR fragment amplified from plasmid pTZ18RMAGE1
 CC which contains the initial 546 bp of the MAGE-1 coding sequence. The
 CC terminal sequence of MAGE-1 was amplified and a fusion product was
 CC generated containing the H6 promoter and the full length MAGE-1 sequence.
 CC This construct may be introduced in to the poxvirus derived plasmids,

ALVAC and NYVAC. The resulting viruses may be used in a composition for inducing an antigenic or immunological response, ie. for immunisation against pathogens.

Sequence 1084 BP; 266 A; 256 C; 280 G; 282 T; 0 other;

Query Match 0.6%; Score 17; DB 15; Length 1084;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 1652 ggctctgggacccctgg 1668
|||||
D 292 ggctctgggacccctgg 308

RESULT 40
Z08442
Z08442 standard; DNA; 1084 BP.

Z08442;

19-OCT-1999 (first entry)

H6/WAGE-1 expression cassette and flanking regions from pMAW037.

Attenuated recombinant virus; cytokine; tumour associated antigen;
NYVAC recombinant virus; ALVAC recombinant virus; gene therapy; rabies;
cancer; tumour necrosis factor; nuclear phosphoprotein; p53; IL-2; GM-CSF;
interleukin; interferon; IFN-gamma; IL-4; melanoma associated antigen;
carcinoembryonic antigen; immunisation; antigenic; poxvirus; influenza;
immunological response; immunotherapy; vaccine; Newcastle Disease; ss.

Synthetic.
Homo sapiens.
Vaccinia virus.

US5942235-A.

24-AUG-1999.

02-JUN-1995; 95US-0458356.

02-JUN-1995; 95US-0458356.

24-DEC-1981; 81US-0334456.

08-DEC-1982; 82US-0448824.

19-JUN-1984; 84US-0622135.

27-AUG-1987; 87US-0090209.

28-OCT-1987; 87US-0090711.

20-OCT-1987; 87US-0110335.

25-APR-1988; 88US-0186054.

23-AUG-1988; 88US-0234390.

08-MAR-1989; 89US-0320471.

14-FEB-1990; 90US-0478179.

14-JUN-1990; 90US-0537882.

14-JUN-1990; 90US-0537890.

07-JAN-1991; 91US-0638080.

07-MAR-1991; 91US-0668056.

11-JUN-1991; 91US-0713967.

16-DEC-1991; 91US-0805567.

03-MAR-1992; 92US-0847977.

06-MAR-1992; 92US-0847951.

04-MAY-1992; 92US-0881995.

22-JUL-1992; 92US-0918278.

20-JAN-1993; 93US-0007115.

19-JAN-1994; 94US-0184009.

14-APR-1994; 94US-0228926.

13-SEP-1994; 94US-0306259.

(HEAL-) HEALTH RES INC.

Paolotti E;

DR WPI; 1999-493494/41.

XX Recombinant poxviruses comprising exogenous DNA encoding antigenic
PT determinants useful in immunotherapy to immunize against cancers and
PT other diseases such as influenza, Newcastle Disease and rabies

XX Example 16; Fig 20; 163pp; English.

XX The present invention describes a recombinant poxvirus (I), comprising
CC exogenous DNA encoding an antigenic determinant of a pathogen which is
CC then expressed in vivo in infected host cells after administration to a
CC patient and therefore induces an immunological response. (I) may be used
CC to vaccinate patients against a wide range of diseases and disorders
CC depending on the type of antigen encoded by the exogenous DNA. (I) may
CC be used to vaccinate against diseases such as rabies, influenza and
CC Newcastle Disease. It is particularly useful for immunising against
CC cancers. The poxvirus (I) also provides a means of manipulating
CC lymphocytes and tumour cells for use in cell-based immunotherapeutic
CC modalities for cancer. (I) also have enhanced safety compared to
CC unattenuated viruses (attenuation reduces the virulence of the viruses)
CC and known recombinant poxvirus vaccines. This increased level of safety
CC reduces the possibility of a 'runaway' infection in the host and reduces
CC the chance of transmission from vaccinated to unvaccinated individuals
CC and contamination of the environment. The present sequence represents a
CC H6/WAGE-1 expression cassette and flanking regions from pMAW037
CC used in the exemplification of the present invention.

XX Sequence 1084 BP; 266 A; 256 C; 280 G; 282 T; 0 other;

Query Match 0.6%; Score 17; DB 20; Length 1084;

Best Local Similarity 100.0%; Pred. No. 1.7e+02;

Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1652 ggctctgggacccctgg 1668

|||||
Db 292 ggctctgggacccctgg 308

RESULT 41

Q67865

ID Q67865 standard; DNA; 1094 BP.

XX AC Q67865;

DT 22-MAR-1995 (first entry)

DE H6/WAGE-1 expression cassette from vCP235.

XX Polymerase chain reaction; primer; amplify; NYVAC; ALVAC; recombinant;
KW human; MAGE-1; melanoma-associated antigen; M22-E; testis; pTZ18RMAGE1;
KW primary melanoma tumour cell; melanoma-derived cell line; tumour;
KW poxvirus; antigenic response; immunological response; pathogen; ss.

XX Synthetic.

XX Key Location/Qualifiers

FT Promoter 74..200

FT /tag= a

FT /note= "Vaccinia H6 promoter"

FT CDS 201..1031

FT /tag= b

FT /product= MAGE-1

FT misc_feature 1032..1094

FT /tag= c

FT /note= "Flanking sequence"

XX WO9416716-A.

XX 04-AUG-1994.

XX 21-JAN-1994; 94WO-US00888.

XX PF

11-JUN-1999 (first entry)
Human secreted protein gene 43 clone HTADX17.
Human; secreted protein; fusion protein; gene therapy; protein therapy;
diagnosis; tissue; cancer; tumour; neurodegenerative disorder; leukaemia;
developmental abnormality; foetal deficiency; blood; allergy; renal; ds;
immune system; asthma; lymphocytic disease; brain; hepatic; lymphoma;
inflammation; ischaemic shock; Alzheimer's disease; restenosis; AIDS;
cognitive disorder; schizophrenia; prostate; obesity; osteoclast; thymus;
osteoporosis; arthritis; testis; lung; thyroiditis; thyroid; digestion;
endocrine; metabolism; regulation; malabsorption; gastritis; neoplasm.
Homo sapiens.
WO9902546-A1.
21-JAN-1999.
07-JUL-1998; 98WO-US13684.
12-SEP-1997; 97US-0058785.
08-JUL-1997; 97US-0051916.
08-JUL-1997; 97US-0051918.
08-JUL-1997; 97US-0051919.
08-JUL-1997; 97US-0051920.
08-JUL-1997; 97US-0051925.
08-JUL-1997; 97US-0051926.
08-JUL-1997; 97US-0051928.
08-JUL-1997; 97US-0051929.
08-JUL-1997; 97US-0051930.
08-JUL-1997; 97US-0051931.
08-JUL-1997; 97US-0051932.
08-JUL-1997; 97US-0052732.
08-JUL-1997; 97US-0052733.
08-JUL-1997; 97US-0052793.
08-JUL-1997; 97US-0052795.
08-JUL-1997; 97US-0052803.
18-AUG-1997; 97US-0055684.
18-AUG-1997; 97US-0055722.
18-AUG-1997; 97US-0055723.
18-AUG-1997; 97US-0055947.
18-AUG-1997; 97US-0055948.
18-AUG-1997; 97US-0055950.
18-AUG-1997; 97US-0055953.
18-AUG-1997; 97US-0055954.
18-AUG-1997; 97US-0055964.
18-AUG-1997; 97US-0055984.
18-AUG-1997; 97US-0056360.
12-SEP-1997; 97US-0058660.
12-SEP-1997; 97US-0058661.
12-SEP-1997; 97US-0058664.
(HUMA-) HUMAN GENOME SCI INC.
Brewer LA, Ebner R, Kiyaw H, Lafleur DW, Li Y, Moore PA;
Olsen HS, Rosen CA, Ruben SM, Shi Y, Soppet DR, Zeng Z;
WPI; 1999-120770/10.
P-PSDB; Y02692.
New isolated human genes and the secreted polypeptides they encode -
useful for diagnosis and treatment of e.g. cancers, neurological
disorders, immune diseases, inflammation or blood disorders
Claim 1; Page 271; 464pp; English.
This sequence represents a nucleic acid molecule which encodes a secreted
human protein. The gene number, and the clone it is derived from, are
detailed in the descriptor line. The gene can be used to generate fusion
proteins by linking to the gene to a human immunoglobulin Fc portion
(e.g. X27302) for increasing the stability of the fused protein as
compared to the human protein only.
The invention relates to 123 novel genes and their fragments (nucleic
acid sequences: X27311-X27449; amino acid sequences Y02630-Y02788) which
are useful for preventing, treating or ameliorating medical conditions
e.g. by protein or gene therapy. Also, pathological conditions can be
diagnosed by determining the amount of the new polypeptides in a sample
or by determining the presence of mutations in the new polynucleotides.
Specific uses are described for each of the 123 polynucleotides, based on
which tissues they are most highly expressed in (see X27311 for described
uses).
Sequence 1140 BP; 280 A; 312 C; 289 G; 254 T; 5 other;
Query Match 0.6%; Score 17; DB 20; Length 1140;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1802 caaagcctggctccagc 1818
Db 930 caaagcctggctccagc 946
|||||
RESULT 44
Q29634
ID Q29634 standard; DNA; 1173 BP.
XX Q29634;
XX
DT 16-MAR-1993 (first entry)
DE Hepatitis C virus HC-J5 3' region.
XX
KW Non-A non-B hepatitis; NANBH; HCV; detection; diagnosis; screening;
PCR; primer; polymerase chain reaction; ss.
XX
OS Hepatitis C virus.
XX
PN EP510952-A.
XX
PD 28-OCT-1992.
XX
PF 23-APR-1992; 92EP-0303625.
XX
PR 26-APR-1991; 91JP-0191376.
XX
PA (IMMO) IMMUNO JAPAN INC.
XX
PI Nakamura T, Okamoto H;
XX
WPI; 1992-359137/44.
XX
PT Detection of non-A, non-B hepatitis virus - using new
oligo-nucleotide primers with nucleotide sequences corresp. to
part. of the viral RNA
XX
PS Disclosure; Page 28; 54pp; English.
XX
CC This sequence represents the 3' region of hepatitis C virus RNA. The
original sample was obtained from human and chimpanzee plasma. RNA
was isolated from several samples and homology compared, and the
respective sequence of about 1900 - 2500 nucleotides of the 5'
terminus and 1100 nucleotides of the 3' terminus determined.
XX
SQ Sequence 1173 BP; 246 A; 358 C; 310 G; 259 T; 0 other;
Query Match 0.6%; Score 17; DB 13; Length 1173;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 294 cggatctcttcaactg 310
|||||

10 910 cggatctcttcaactg 926

RESULT 45

229635
D Q29635 standard; DNA; 1173 BP.

XX Q29635;

XX 16-MAR-1993 (first entry)

XX Hepatitis C virus HC-J6 3' region.

XX Non-A non-B hepatitis; NANBH; HCV; detection; diagnosis; screening;
XX PCR; primer; polymerase chain reaction; ss.

XX Hepatitis C virus.

XX EP510952-A.

XX 28-OCT-1992.

XX 23-APR-1992; 92EP-0303625.

XX 26-APR-1991; 91JP-0191376.

XX (IMMO) IMMUNO JAPAN INC.

XX Nakamura T, Okamoto H;

XX WPI; 1992-359137/44.

XX Detection of non-A, non-B hepatitis virus - using new
XX oligo-nucleotide primers with nucleotide sequences corresp. to
XX part. of the viral RNA

XX Disclosure; Page 29; 54pp; English.

XX This sequence represents the 3' region of hepatitis C virus RNA. The
XX original sample was obtained from human and chimpanzee plasma. RNA
XX was isolated from several samples and homology compared, and the
XX respective sequence of about 1900 - 2500 nucleotides of the 5'
XX terminus and 1100 nucleotides of the 3' terminus determined.

XX Sequence 1173 BP; 251 A; 362 C; 304 G; 256 T; 0 other;

Query Match

Best Local Similarity 0.6%; Score 17; DB 13; Length 1173;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 294 cggatctcttcaactg 310

10 910 cggatctcttcaactg 926

RESULT 46

243895
D Q43895 standard; cDNA to RNA; 1173 BP.

XX Q43895;

XX 21-OCT-1993 (first entry)

XX NANB hepatitis virus polynucleotide N-1173-3.

XX Non-A, non-B; virus; polymerase chain reaction; detection;
XX sensitive; specific; HCV; NANBH; ss.

XX Non-A, non-B hepatitis virus.

XX Key Location/Qualifiers
XX CDS 2..1119

FT /*tag= a

XX JP05091884-A.

XX 16-APR-1993.

XX 10-APR-1991; 91JP-0196175.

XX 12-JUN-1990; 90JP-0153401.

XX 08-NOV-1990; 90JP-0304405.

XX (NAKA/) NAKAMURA T.

XX WPI; 1993-199637/25.

XX P-PSDB; R36285.

XX Antigen related to non-A and non-B hepatitis virus - comprises
XX non-translation region comprising 340 - 341 mols. of nucleotides,
XX non-translation region comprising 1885 - 2551 mols. of
XX nucleotides including region 1,149 and, etc.

XX Claim 9; Page 29; 73pp; Japanese.

XX The sequence is that of NANB hepatitis virus polynucleotide N-1173-3
XX which codes for a non-A, non-B (NANB) hepatitis virus gene HC-OM.
XX The polypeptide it encodes may be used in a system for detecting
XX NANB hepatitis. This method is highly specific and sensitive, and
XX can detect NANB hepatitis virus which could not be detected by
XX conventional methods.

XX Sequence 1173 BP; 247 A; 358 C; 309 G; 259 T; 0 other;

Query Match

Best Local Similarity 0.6%; Score 17; DB 14; Length 1173;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 294 cggatctcttcaactg 310

Db 910 cggatctcttcaactg 926

RESULT 47

246089
D 246089 standard; cDNA; 1209 BP.

XX 246089;

XX 05-MAY-2000 (first entry)

XX cDNA encoding a forkhead activin signal transducer designated FAST2.

XX Forkhead activin signal transducer protein; FAST2; activin signalling;
XX winged-helix/forkhead domain protein; homeobox gene; goosecoid inducer;
XX gsc; transforming growth factor-beta signalling; gsc promoter;
XX signal transduction; transcription factor; wound healing; inflammation;
XX tumour progression; scarring; arthritis; fibrosis; liver fibrosis;
XX kidney fibrosis; ss.

XX Mus sp.

XX Key Location/Qualifiers

XX CDS 4..1209

XX /*tag= a
XX /product= "Forkhead activin signal transducer protein"
XX /*transl_except= (pos: 1183..1185, aa: Cys)

XX WO200004143-A1.

XX 27-JAN-2000.

XX 19-JUL-1999; 99WO-CA00645.

17-JUL-1998; 98CA-2237788.
 (HSCR-) HSC RES & DEV LP.
 Wrana JL, Attisano L;
 WPI: 2000-171267/15.
 P-PSDB; Y54601.

New mammalian transcription factor, useful for preventing or treating disorders associated with transforming growth factor beta or activin signaling pathways

Claim 3; Page 43; 76pp; English.

The present sequence encodes a mammalian forkhead activin signal transducer (FAST) protein, designated FAST2. The protein is a winged-helix/forkhead domain protein. The protein is an inducer of the homeobox gene goosecoid (gsc) by transforming growth factor (TGF)-beta or activin signaling. FAST2 binds to a nucleotide sequence in the gsc promoter. The FAST2 protein is useful for modulating signal transduction in a TGF-beta or activin signaling pathway, which involves FAST2 as transcription factor, by modulating the formation of Smad2/Smad4/FAST2 or Smad3/Smad4/FAST2 complex. Inhibition of FAST2 binding to its target DNA site inhibits FAST2 specific TGF-beta signaling, which is associated with wound healing inflammation, and tumour progression. Excessive signaling is associated with scarring, arthritis and fibrosis in numerous diseases, including fibrosis of the liver and kidney.

Sequence 1209 BP; 247 A; 412 C; 315 G; 235 T; 0 other;

Query Match 0.6%; Score 17; DB 21; Length 1209;
 Best Local Similarity 100.0%; Pred. No. 1.7e+02;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1074 cacatggccccagcacc 1090
 636 cacatggccccagcacc 652

RESULT 48
 X87593
 X87593 standard; cDNA; 1338 BP.
 X87593;
 26-OCT-1999 (first entry)
 CLYTA-MAGE-1-His fusion DNA.
 MAGE-1; CLYTA-MAGE-1-His; fusion protein; tumour; melanoma;
 breast cancer; bladder cancer; lung cancer; colon cancer;
 head and squamous cell carcinoma; oesophagus carcinoma; vaccine;
 human; ss.
 Chimeric - Streptococcus pneumoniae.
 Chimeric - Homo sapiens.
 Chimeric - synthetic.
 WO9940188-A2.
 12-AUG-1999;
 02-FEB-1999; 99WO-EP00660.
 06-FEB-1998; 98GB-0002650.
 05-FEB-1998; 98GB-0002543.
 (SMIK) SMITHKLINE BEECHAM BIOLOGICALS.
 Cabezon Silva T, Cohen J, Slaoui MM, Vinals Bassols C;

XX WPI: 1999-494293/41.
 DR P-PSDB; Y06592.
 XX
 PT New protein derivatives used in cancer vaccine therapy for treating
 PT a range of cancers including melanomas, carcinomas and cancers of
 PT breast
 XX
 PS Example 9; Page 70-71; 72pp; English.
 XX
 CC This DNA sequence codes for a fusion protein (see Y06592) composed
 CC of the c-terminal portion of the Streptococcus pneumoniae LYTA
 CC protein (CLYTA), the human MAGE-1 tumour-associated antigen and a
 CC hexahistidine tail. A vector designed for recombinant expression
 CC of the fusion protein in Escherichia coli is provided. The CLYTA
 CC moiety provides expression of soluble fusion protein, facilitates
 CC affinity purification of the fusion protein, and also acts as a
 CC T-helper epitope. The invention relates to MAGE proteins fused to
 CC an immunological fusion partner, e.g. CLYTA-MAGE-1-His. These novel
 CC fusion proteins provide vaccines for immunotherapy of melanomas or
 CC other MAGE-associated tumours like breast, bladder, lung and
 CC non-small cell lung cancer, head and squamous cell carcinoma, colon
 CC carcinoma and oesophagus carcinoma.
 XX
 SQ Sequence 1338 BP; 335 A; 334 C; 378 G; 291 T; 0 other;

Query Match 0.6%; Score 17; DB 20; Length 1338;
 Best Local Similarity 100.0%; Pred. No. 1.7e+02;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1652 ggtcctggggcaccctgg 1668
 495 ggtcctggggcaccctgg 511

RESULT 49
 X87591
 ID X87591 standard; cDNA; 1341 BP.
 XX
 AC X87591;
 XX
 DT 26-OCT-1999 (first entry)
 XX
 DE Lipoprotein D-MAGE-1-His fusion DNA.
 XX
 KW MAGE-1; lipoprotein D; LPD-MAGE-1-His; fusion protein; tumour;
 KW melanoma; breast cancer; bladder cancer; lung cancer;
 KW head and squamous cell carcinoma; colon cancer;
 KW oesophagus carcinoma; vaccine; human; ss.
 XX
 OS Chimeric - Haemophilus influenzae.
 OS Chimeric - Homo sapiens.
 OS Chimeric - synthetic.
 XX
 PN WO9940188-A2.
 XX
 PD 12-AUG-1999.
 XX
 PF 02-FEB-1999; 99WO-EP00660.
 XX
 PR 06-FEB-1998; 98GB-0002650.
 PR 05-FEB-1998; 98GB-0002543.
 XX
 PA (SMIK) SMITHKLINE BEECHAM BIOLOGICALS.
 XX
 PI Cabezon Silva T, Cohen J, Slaoui MM, Vinals Bassols C;
 XX
 DR WPI: 1999-494293/41.
 DR P-PSDB; Y06590.
 XX
 PT New protein derivatives used in cancer vaccine therapy for treating
 PT a range of cancers including melanomas, carcinomas and cancers of

breast

Example 6; Page 66; 72pp; English.

This DNA sequence codes for a fusion protein (see Y06590) composed of lipidated protein D (LPD) of Haemophilus influenzae B, the human MAGE-1 tumour-associated antigen and a hexahistidine tail. The invention relates to MAGE proteins fused to an immunological fusion partner such as LPD. The LPD moiety provides the fusion protein with additional exogenous T-cell epitopes and also increase expression levels in E. coli. The lipid tail ensures optimal presentation of the antigen to antigen-presenting cells. The affinity tag facilitates purification. The novel fusion proteins provide vaccines for immunotherapy of melanomas or other MAGE-associated tumours like breast, bladder, lung and non-small cell lung cancer, head and squamous cell carcinoma, colon carcinoma and oesophagus carcinoma.

Sequence 1341 BP; 336 A; 327 C; 351 G; 327 T; 0 other;

Query Match 0.6%; Score 17; DB 20; Length 1341;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1652 ggctcctgggaccctgg 1668

|||||

RESULT 50

114450/C
Q14450 standard; RNA; 1345 BP.

Q14450;

11-DEC-1991 (first entry)

16S RNA from ATCC 19588 sulphate-reducing bacteria.

SRB; Desulphovibro; Desulphotomaculum; ribosomal RNA; ss.

Synthetic.

Key Location/Qualifiers

US049489-A.

17-SEP-1991.

17-APR-1989; 89US-0339277.

17-APR-1989; 89US-0339277.

(STAH) STANDARD OIL CO.

(OHIO) OHIO OIL CO.

Aldrich KJ, Brink DE;

WPI; 1991-294983/40.

Assay for sulphate-reducing bacteria - by hybridisation using a labelled oligo-nucleotide probe corresponding to 16S rRNA of the bacteria

Disclosure; Fig 1; 16pp; English.

The sequence is shown folded into secondary structure in the specification. It was compared with other sequences available in the literature to design probes specific for SRB. The probes can be used for the rapid identification and quantification of SRB in a sample, e.g. oil-field prodn. waters, water from water treatment facilities, or samples from the gut of ruminant animals.

CC See also Q13729-Q13733.

XX Sequence 1345 BP; 331 A; 297 C; 435 G; 249 U; 33 other;

Query Match 0.6%; Score 17; DB 12; Length 1345;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 cggcttctcagtttg 36

|||||

Db 1274 CGGCTTCTCAGTTTG 1258

RESULT 51

T27644/C

ID: T27644 standard; cDNA; 1557 BP.

XX

AC T27644;

DT 14-NOV-1996 (first entry)

XX cDNA encoding protein for releasing G1 arrest in an animal cell.

KW G1 arrest; animal cell; human foreskin; cell cycle; ds.

OS Homo sapiens.

XX

FH Key Location/Qualifiers

FT CDS 280..1290

/*tag= a

FT Misc-difference 1436

/*tag= b

/note= "Given in the specification as 5"

XX

PN JP08092288-A.

XX

PD 09-APR-1996.

XX

PF 21-SEP-1994; 94JP-0251537.

XX

PR 21-SEP-1994; 94JP-0251537.

XX

PA (TEIJ) TEIJIN LTD.

XX

DR WPI; 1996-236098/24.

XX

DR P-PSDB; R96248.

XX

PT DNA encoding G1 arrest-releasing protein - useful for the control of

XX

PT the cell cycle

XX

PS Claim 3; Page 9-10; 12pp; Japanese.

XX

CC This sequence encodes a protein which can release G1 arrest of

XX

CC an animal cell. This sequence was isolated from a human foreskin

XX

CC cDNA library. The protein can be used in the control of the cell

XX

CC cycle.

XX

SQ Sequence 1557 BP; 438 A; 349 C; 363 G; 406 T; 1 other;

Query Match

Best Local Similarity 0.6%; Score 17; DB 17; Length 1557;

Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 708 aatgagccacaccttc 724

|||||

Db 1014 AATGAGCCACACCTTC 998

RESULT 52

T98595/C

ID T98595 standard; DNA; 1591 BP.

T98595;
06-NOV-1998 (first entry)
DNA encoding GTP-binding proteins ERA homolog.
Streptococcus pneumoniae protein; genetic immunisation; antagonist; immunological response; inoculation; antibody production; inhibitor; T cell immune response; antimicrobial compound; bacterial adhesion; extracellular matrix protein; protein-mediated cell invasion; wound; pathogenesis; ss.
Streptococcus pneumoniae.
Key Location/Qualifiers
CDS complement (592..1086)
/*tag= a
CDS complement (1022..1492)
/*tag= b
W09743303-A1.
20-NOV-1997.
14-MAY-1997; 97WO-US07950.
14-MAY-1996; 96US-0017670.
(SMIK) SMITHKLINE BEECHAM CORP.
(SMIK) SMITHKLINE BEECHAM PLC.
Black MT, Hodgson JE, Knowles DJC, Nicholas RO;
Stodola RK;
WPI: 1998-008793/01.
P-PSDB: W38537, W38538.
Novel Streptococcus pneumoniae proteins and related DNA - useful for diagnosing anti-microbial agents for treatment of bacterial infections
Claim 4; Pages 129-130; 483pp; English.
This sequence encodes two Streptococcus pneumoniae proteins (based on homology with Streptococcus mutans proteins) are GTP-binding proteins ERA homolog, and represents a DNA sequence of the invention. The DNA sequences were isolated from Streptococcus pneumoniae strain 1010993 (NCIMB 40794). The Streptococcus pneumoniae proteins of the invention can be used to identify compounds which interact with and inhibit or activate the activity of the proteins. Antagonists can be used to treat diseases caused by S. pneumoniae proteins, through genetic immunisation. They can also be used to induce an immunological response in a mammal by inoculation with the S. pneumoniae proteins or delivery of the encoding nucleic acids in a vector adequate to produce antibody and/or T cell immune responses to protect the animal from disease. The proteins can also be used to identify antimicrobial compounds which are capable of inhibiting their bioactivity. In particular the proteins of the invention can be used to prevent adhesion of bacteria to mammalian extracellular matrix proteins on in-dwelling devices or in wounds, to block protein-mediated mammalian cell invasion, and to block the normal progression of pathogenesis in infections initiated other than by the implantation of in-dwelling devices or other surgical techniques.
Sequence 1591 BP; 452 A; 378 C; 313 G; 448 T; 0 other;
Query Match 0.6%; Score 17; DB 19; Length 1591;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0
1947 gatttgggaagatttca 1963
|||||

Neurodegenerative polypeptide HHPDZ65var coding sequence.

Neurodegenerative polypeptide; HHPDZ65; stroke; pain; epilepsy; therapy; neurodegenerative disease; ss.

Homo sapiens.

EP875570-A2.

04-NOV-1998.

15-APR-1998; 98EP-0302912.

19-FEB-1998; 98GB-0003566.

01-MAY-1997; 97GB-0008936.

18-DEC-1997; 97EP-0310289.

(SMIK) SMITHKLINE BEECHAM PLC.

Bingham S, Davis J, Doe TR, Harrison DC, Topp S;

WPI; 1998-559436/48.

P-PSDB; W80318.

HHPDZ65 polypeptide(s), their corresponding DNA, antibodies, agonists and antagonists - are useful in the treatment of stroke, pain, epilepsy and neurodegenerative diseases

Claim 21; Page 16; 3lpp; English.

This sequence encodes the HHPDZ65var neurodegenerative polypeptide of the invention. HHPDZ65 is useful for the treatment of stroke, pain, epilepsy, neurodegenerative diseases and others. The DNAs and proteins are useful in a method for screening to identify compounds which stimulate or inhibit the function of the HHPDZ65 proteins. The polypeptides are useful in a process for diagnosing a disease or a susceptibility to a disease in a subject related to expression or activity of the HHPDZ65 polypeptides.

Sequence 1632 BP; 312 A; 529 C; 497 G; 294 T; 0 other;

Query Match 0.6%; Score 17; DB 19; Length 1632;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

2624 cactgctcccccaggagg 2640
|||||

1579 cactgctcccccaggagg 1595
|||||

RESULT 55
25023

225023 standard; cDNA; 1664 BP.

225023;

06-DEC-1999 (first entry)

Murine D6 encoding cDNA SEQ ID NO:4.

D6; G protein-coupled heptahelical receptor; diagnosis; asthma; respiratory inflammatory disorder; identification; ss.

Mus sp.

WO9947697-A1.

23-SEP-1999.

19-MAR-1999; 98WO-US06075.

20-MAR-1998; 98US-0045583.

(MILL-) MILLENNIUM PHARM INC.
(CRCT-) CRC TECHNOLOGY LTD.

Graham GJ, Benjamin Nibbs RJ, Gonzalo J, Gutierrez-Ramos J;

WPI; 1999-562123/47.

P-PSDB; Y41682.

Identification of D6 G-protein coupled receptor binding compounds and modulators, useful in treatment of asthma

Claim 2; Fig 2; 152pp; English.

Methods have been developed for identifying a compound, which binds to a human or murine D6 protein, an allelic variant or a fragment comprises detecting binding of the test compound to the protein. Also described in the present invention are: (1) a method for identifying a compound capable of treating a disorder characterized by aberrant D6 nucleic acid expression of D6 protein activity; (2) a method for treating a subject having a disorder characterized by aberrant D6 protein activity or nucleic acid expression comprising administering to the subject a D6 modulator such that treatment of the subject occurs; and (3) methods for identifying a compound that modulates the activity of a Human or murine D6 protein, an allelic variant or a fragment. The methods are useful for identifying compounds capable of treating disorders, especially a respiratory inflammatory disorder, characterized by aberrant D6 nucleic acid expression or D6 protein activity. In particular, the disorder is asthma. D6 modulators are used to treat asthma. The present sequence encodes the murine D6 protein.

Sequence 1664 BP; 313 A; 484 C; 436 G; 431 T; 0 other;

Query Match 0.6%; Score 17; DB 20; Length 1664;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

2212 tctgaacacattcagc 2228
|||||

1479 tctgaacacattcagc 1495
|||||

RESULT 56
V72116

ID V72116 standard; cDNA; 1668 BP.

AC V72116;

10-MAY-1999 (first entry)

Mouse FAST-1 coding region.

Transforming growth factor-beta superfamily signalling; modulator; Smad2; TGF-beta; detection; FAST-1; MH2 domain; Smad interaction domain; SID; treatment; developmental; disorder; immunological; cancer; diagnosis; ss.

Mus sp.

WO9853830-A1.

03-DEC-1998.

28-MAY-1998; 98WO-US10983.

28-MAY-1997; 97US-0047991.

(HARD) HARVARD COLLEGE.

Chen X, Whitman M;

WPI; 1999-059773/05.

P-PSDB; W90249.

Modulating TGF-beta superfamily signalling - comprises use of compounds identified in assays with Smad2, FAST-1 and Smad3, used to develop products for treating, e.g. developmental disorders

Example XII; Page 70; 107pp; English.

This sequence encodes a mouse FAST-1 protein which is used in a method to detect a compound capable of modulating transforming growth factor-beta (TGF-beta) superfamily signalling. The invention describes a complex which forms between FAST-1 and Smad2 and this complex is specifically induced by signals generated by a TGF-beta superfamily member. A domain of FAST-1 directly interacts with Smad2 and this interaction is mediated by specific domains of the two interacting molecules, namely, the MH2 domain of Smad2 and the Smad interaction domain (SID) of FAST-1. The methods and compounds described are useful for the detection and treatment of conditions involving abnormal TGF-beta superfamily signalling. They can be used to treat e.g. developmental disorders, immunological disorders and cancer. The products can also be used for detection and diagnosis.

Sequence 1668 BP; 368 A; 517 C; 432 G; 351 T; 0 other;

Query Match 0.6%; Score 17; DB 20; Length 1668;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 1074 cacatggccccagcattc 1090
|||||
5 621 cacatggccccagcattc 637

RESULT 57
V69719 standard; cDNA; 1691 BP.

V69719;

01-MAR-1999 (first entry)

Tumour rejection antigen precursor MAGE-A1 cDNA.

MAGE-A1; human; tumour rejection antigen precursor; TRAP; therapy; diagnosis; ss.

Homo sapiens.

Key Location/Qualifiers
CDS 204..1133
/*tag= a

W09849184-A1.

05-NOV-1998.

24-APR-1998; 98WO-US08493.

25-APR-1997; 97US-0845528.

(LUDW-) LUDWIG INST CANCER RES.

Boon-Falleur T, De Smet C, Lucas S;
WPI; 1999-024041/02.
P-PSDB; W81548.

Tumour rejection antigen precursors - used for determining presence of cytolytic T cells specific for complexes of a human leukocyte antigen

Disclosure; Page 46-47; 84pp; English.

This nucleotide sequence comprises human tumour rejection antigen precursor (TRAP) MAGE-A1 cDNA, which encodes a 309-amino acid polypeptide (see W81548). MAGE-A1 cDNA shows homology to novel human MAGE-C1 cDNA (see V69720), especially in exons 2 and 3. The open reading frame of MAGE-C1, however, is about 2 kb longer than that of MAGE-A1, most of the difference being accounted for by a large repetitive sequence. MAGE-C1 (see W81546) is a novel member of the MAGE family that may be recognised by cytotoxic T cells, leading to lysis of the tumour cells which express it. It is expressed in a variety of tumours and in normal testis cells, but not by other normal cells. The invention provides MAGE-C1 and MAGE-C2 nucleic acids and polypeptides, useful e.g. in a claimed method for determining the presence of cytolytic T cells specific for complexes of a human leukocyte antigen (HLA).

Sequence 1691 BP; 410 A; 389 C; 465 G; 427 T; 0 other;

Query Match 0.6%; Score 17; DB 20; Length 1691;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1652 ggtcctggggcaccctgg 1668
|||||
Db 317 ggtcctggggcaccctgg 333

RESULT 58
Z52876
ID Z52876 standard; cDNA; 1702 BP.

XX Z52876;
AC Z52876;

XX 14-MAR-2000 (first entry)

XX Human prostate tumor cDNA library derived EST fragment #19.

XX Pancreas; tumor; EST; expressed sequence tag; human; cytostatic; treatment; ds.

XX Homo sapiens.

XX DE19820190-A1.

XX 04-NOV-1999.

XX 28-APR-1998; 98DE-1020190.

XX 28-APR-1998; 98DE-1020190.

XX (META-) METAGEN GES GENOMFORSCHUNG MBH.

XX Rosenthal A, Specht T, Hinzmann B, Schmitt A, Pilarsky C, Dahl E;
WPI; 1999-621386/54.

XX P-PSDB; Y73868, Y73869, Y73870.

XX New human nucleic acid sequences from pancreatic tumors, and related proteins

XX Claim 2; Page 197-198; 502pp; German.

XX This invention describes novel polypeptides and their encoding nucleic acids derived from human pancreatic tumor tissue which have cytostatic activity. The sequences are also useful in producing pharmaceutical compositions for treatment of pancreatic tumors. 252858-253014 represent expressed sequence tag (EST) fragments derived from a human pancreatic tumor cDNA library and which encode the proteins represented in

XX Y73814-Y74252.

XX Sequence 1702 BP; 371 A; 517 C; 476 G; 338 T; 0 other;

Query Match 0.6%; Score 17; DB 20; Length 1702;
 Best Local Similarity 100.0%; Pred. No. 1.7e+02;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DY 1341 agggagtgccagagga 1357
 |||||
 25 1112 agggagtgccagagga 1128

RESULT 59
 V38385
 CD V38385 standard; cDNA; 1724 BP.
 AC V38385;
 TT 24-NOV-1998 (first entry)
 X Beta(1 -> 4)-N-acetylglucosaminyl-transferase (Gnt-IV)b encoding cDNA.
 DE Beta(1 -> 4)-N-acetylglucosaminyl-transferase; Gnt-IV; bovine; human;
 XX enzyme; sugar chain subunit; branched oligosaccharide; polysaccharide;
 TW drug; reagent; food; biopolymer; glycoprotein; erythropoietin; ss.
 KW
 XX Homo sapiens.
 S
 X Key Location/Qualifiers
 T 43..1689
 T CDS
 T /*tag= a
 T /product= "Gnt-IVb enzyme"
 XX
 XX W09826053-A1.
 PN
 XN 18-JUN-1998.
 FD
 XX 10-DEC-1997; 97MO-JP04546.
 F
 XX 18-JUN-1997; 97JP-0161462.
 X 12-DEC-1996; 96JP-0332411.
 XX
 XX (KIRI) KIRIN BEER KK.
 XX
 XX Minowa M, Oguri S, Takeuchi M, Taniguchi N, Yoshida A;
 PI
 XX WPI; 1998-348516/30.
 XX P-PSDB; W63559.
 X
 X Recombinant beta(1-4)-N-acetylglucosaminyl-transferase - allows
 TT production of difficultly accessible branched poly:saccharides for
 TT food and drug use
 TT
 XX Claim 16; Pages 70-74; 112pp; Japanese.
 XX
 XX This cDNA encodes a human beta(1 -> 4)-N-acetylglucosaminyl-transferase
 CC (Gnt-IV)b enzyme. The invention provides bovine and human Gnt-IV enzymes
 CC that can be used for converting sugar chain subunits having one structure
 CC to another structure. Vectors containing the DNA sequences encoding these
 CC enzymes can be used to transform host cells for the production of the
 CC Gnt-IV enzymes. The enzymes are useful in the production of branched
 CC oligosaccharides and polysaccharides which are difficult of access by
 CC other methods. They are also useful in the production of drugs, reagents
 CC and foods and in modifying the properties of biopolymers containing sugar
 CC chains. The enzyme may also be used for the preparation of glycoproteins
 CC such as erythropoietin.
 XX
 XX Sequence 1724 BP; 353 A; 553 C; 501 G; 317 T; 0 other;

Query Match 0.6%; Score 17; DB 19; Length 1724;
 Best Local Similarity 100.0%; Pred. No. 1.7e+02;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DY 1341 agggagtgccagagga 1357
 |||||

Db 1565 agggagtgccagagga 1581

RESULT 60
 X85940
 ID X85940 standard; DNA; 1816 BP.
 XX
 AC X85940;
 XX
 DT 13-SEP-1999 (first entry)
 XX
 DE DNA encoding human cell division regulator (HCDR) 1.
 XX
 KW Human cell division regulator; HCDR: interphase; inflammation;
 KW cell proliferation; apoptosis; neurodeficiency;
 KW neurodegenerative disease; aplastic anaemia; ischaemic injury;
 KW liver damage; viral infection; hepatitis B; hepatitis C; ss.
 XX
 OS Homo sapiens.
 XX
 PN US5928899-A.
 XX
 PD 27-JUL-1999.
 PD
 XX 01-OCT-1998; 98US-0165234.
 PF
 XX 15-OCT-1997; 97US-0951148.
 PR
 PR 01-OCT-1998; 98US-0165234.
 XX
 XX (INCY-) INCYTE PHARM INC.
 PA
 XX Bandman O, Corley NC, Hillman JL, Lal P, Shah P;
 PI
 XX WPI; 1999-429499/36.
 DR
 DR P-PSDB; Y23782.
 XX
 XX Cell division regulators active in interphase
 PT
 XX Example 1; Fig 1A-E; 59pp; English.
 PS
 XX The present sequence encodes human cell division regulator (HCDR) 1.
 CC HCDR proteins are active in interphase, and are used for the
 CC treatment or prevention of inflammation and disorders associated with
 CC cell proliferation and apoptosis. HCDR may be administered to a
 CC patient having a disorder associated with an increase in apoptosis,
 CC such a disorder may be e.g. neurodeficiency, a neurodegenerative
 CC disease, aplastic anaemia, an ischaemic injury, liver damage, or a
 CC viral infection such as hepatitis B or C.
 XX
 SQ Sequence 1816 BP; 494 A; 473 C; 494 G; 355 T; 0 other;

Query Match 0.6%; Score 17; DB 20; Length 1816;
 Best Local Similarity 100.0%; Pred. No. 1.7e+02;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DY 804 ggaactctcttggtgct 820
 |||||
 Db 717 ggaactctcttggtgct 733

RESULT 61
 X01577
 ID X01577 standard; DNA; 1818 BP.
 XX
 AC X01577;
 XX
 DT 04-MAY-1999 (first entry)
 XX
 DE Human HCDR-1 coding sequence.
 XX
 XX Human; HCDR-1; HCDR-2; HCDR-3; human cell division regulator; apoptosis;
 KW inflammation; cell proliferation disorder; adenocarcinoma; AIDS; ss.

```
XX Homo sapiens.
XX US5871973-A.
XX 16-FEB-1999.
XX 15-OCT-1997; 97US-09511148.
XX 15-OCT-1997; 97US-09511148.
XX (INCY-) INCYTE PHARM INC.
XX Bandman O, Corley NC, Hillman JL, Lal P, Shah P;
XX WPI; 1999-166646/14.
XX P-PSDB; W73971.
XX New polynucleotides encoding human cell division regulators (HCDR)
XX - useful for diagnosing, preventing and treating inflammation and
XX disorders associated with cell proliferation and apoptosis
XX Claim 4; Fig 1; 59pp; English.
XX This sequence encodes the human cell division regulator-1 (HCDR-1)
XX protein of the invention. Polynucleotides complementary to the HCDR-1
XX coding sequence can be used as probes to detect the DNA in a sample. The
XX polynucleotide sequences encoding HCDR may be used to prevent/treat
XX inflammation and disorders associated with cell proliferation and
XX apoptosis and in assays that detect activation of cancers.
XX Polynucleotides encoding HCDR may be used for the diagnosis of conditions
XX associated with expression of HCDR, including disorders associated with
XX cell proliferation/apoptosis e.g. adenocarcinoma and AIDS. The
XX polynucleotides may also be used in Southern or Northern analysis, dot
XX blot, or other membrane based technologies; in PCR technologies; or in
XX dipstick, pin, or ELISA assays or microarrays utilising fluids or tissues
XX from patient biopsies to detect altered HCDR expression.
XX Sequence 1818 BP; 494 A; 473 C; 494 G; 355 T; 2 other;

Query Match 0.6%; Score 17; DB 20; Length 1818;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

804 ggaactcttctgtgct 820
|||||
719 ggaactcttctgtgct 735

RESULT 62
A15550/c
A15550 standard; cDNA to mRNA; 1906 BP.
A15550;
31-JUL-2000 (first entry)
Human TRAF four associated factor TRAF2 coding sequence.
TRAF2; TRAF four associated factor 2; tumour formation; breast cancer;
TRAF4; TNF receptor associated factor; tumour diagnosis; ds.
Homo sapiens.
Key Location/Qualifiers
CDS 13..1230
/*tag= a
/product= TRAF2
CA2245340-A1.
19-FEB-2000.
```

```
XX 19-AUG-1998; 98CA-2245340.
XX 19-AUG-1998; 98CA-2245340.
XX (MEDI-) MEDICAL & BIOLOGICAL LAB CO LTD.
XX Yano M, Toji S, Tamai K;
XX WPI; 2000-351124/31.
XX P-PSDB; Y94209.
XX Novel tumour necrosis factor receptor associated factor 4 associated
XX factors useful for developing cancer screens, and treating tumours -
XX Claim 4; Page 47-50; 68pp; English.
XX The present sequence is the coding sequence of human TRAF four
XX associated factor TRAF2. The gene was discovered by screening a human
XX placenta cDNA library using a two-hybrid system. The protein associates
XX with the TRAF domain located at the carboxyl-terminal of TNF
XX receptor associated factor 4 (TRAF4), which is believed to be an
XX oncoprotein. Antibodies that bind to TNF four associated factors (TRAFs)
XX may be used to treat or diagnose tumours (e.g. breast cancer) when
XX labelled with an isotope or an appropriate drug, precursor or enzyme.
XX Antagonists, agonists, and antisense sequences of TRAFs may be used to
XX treat cancers. TRAF proteins, antibodies that recognise them and DNAs
XX for them may be useful as tools for cancer research.
XX Sequence 1906 BP; 655 A; 320 C; 372 G; 559 T; 0 other;

Query Match 0.6%; Score 17; DB 21; Length 1906;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

2796 gtttttaagaagtctt 2812
|||||
582 GTTTTAAAGAGTCTT 566

RESULT 63
T09084/c
T09084 standard; cDNA to mRNA; 2160 BP.
T09084;
09-MAY-1996 (first entry)
Nitrite reductase gene.
nitrite reductase; transgenic crop; transgenic tree; detoxification;
atmospheric pollutant; ds.
Populus nigra L. var italica.
Key Location/Qualifiers
CDS 40..1806
/*tag= a
/product= nitrite_reductase
primer_bind 367..390
/*tag= b
primer_bind 838..860
/*tag= c
polyA_signal 2114..2119
/*tag= d
misc_feature 2146..2160
/*tag= e
/label= poly_A_site
JP07236486-A.
12-SEP-1995.
```

```

XX 02-MAR-1994; 94JP-0032359.
XX 02-MAR-1994; 94JP-0032359.
XX (TOYT) TOYOTA JIDOSHA KK.
XX WPI: 1995-347454/45.
XX P-PSDB; R87973.
XX Nitrite reductase gene from Populus nigra - useful for breeding
XX trees to remove nitrogen di:oxide from the atmosphere or for crops
XX which produce fewer carcinogenic nitrosamine(s)
XX Claim 1; Page 5-8; 8pp; Japanese.
XX The gene encodes a nitrite reductase gene isolated from Populus nigra.
XX The gene is useful in generation of street trees with a high power for
XX clarifying NO2, an atmospheric pollutant. The gene can also be used in
XX transgenic plants, esp. crops, bred to contain less nitrosamines (a
XX carcinogenic substance present in food).
XX Sequence 2160 BP; 660 A; 388 C; 570 G; 542 T; 0 other;
XX
XX Query Match 0.6%; Score 17; DB 16; Length 2160;
XX Best Local Similarity 100.0%; Pred. No. 1.7e+02;
XX Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1711 gcttgccaagtattcttg 1727
XX |||||
XX 495 GCTTGCCCAAGTATCTG 479
XX
XX RESULT 64
XX 50582/c
XX 23-MAY-2000 (first entry)
XX Human epidermal protein-6 cDNA.
XX Human epidermal protein-6; HEPI; epithelial disorder; scabies;
XX dyshidrotic eczema; cell proliferative disorder; actinic keratosis;
XX arteriosclerosis; autoimmune disorder; inflammatory disorder;
XX acquired immune deficiency syndrome; AIDS; Addison's disease; antiHIV;
XX dermatological; anitarteriosclerotic; antiinflammatory;
XX immunosuppressive; ss.
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX CDS 47..1636
XX /*tag= a
XX /product= "Human epidermal protein-6"
XX sig_peptide 1..142
XX /*tag= b
XX mat_peptide 148..1636
XX /*tag= c
XX /product= "Mature human epidermal protein-6"
XX
XX WO200006727-A2.
XX 10-FEB-2000.
XX 27-JUL-1999; 99WO-US17107.
XX 28-JUL-1998; 98US-0155203.
XX 07-DEC-1998; 98US-0155254.
XX (INCY-) INCYTE PHARM INC.

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XX Tang YT, Lal P, Corley NC, Guegler KJ, Patterson C, Baughn MR;
XX Yue H;
XX WPI: 2000-195295/17.
XX P-PSDB; Y44989.
XX New human epidermal proteins (HEPI-1) to (HEPI-6) useful for the
XX diagnosis, treatment and prevention of epithelial, cell proliferative,
XX and autoimmune inflammatory disorders
XX Claim 7; Page 78-79; 82pp; English.
XX The present cDNA sequence encodes human epidermal protein-6 (HEPI). The
XX cDNA clone is derived from PTHYNO03 library which was constructed using
XX RNA isolated from left parathyroid tissue of a 69-year-old caucasian
XX female during a partial parathyroidectomy. Recombinant vectors
XX comprising HEPI cDNA are introduced into host cells for protein
XX expression. The HEPI proteins are useful for the treatment of epithelial
XX disorders, including dyshidrotic eczema and scabies, cell proliferative
XX disorders including actinic keratosis and arteriosclerosis, and
XX autoimmune/inflammatory disorders like acquired immune deficiency
XX syndrome (AIDS) and Addison's disease. Pharmaceutical compositions
XX comprising HEPI proteins are useful for treating disorders associated
XX with altered HEPI expression.
XX Sequence 2284 BP; 452 A; 775 C; 534 G; 523 T; 0 other;
XX
XX Query Match 0.6%; Score 17; DB 21; Length 2284;
XX Best Local Similarity 100.0%; Pred. No. 1.7e+02;
XX Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1881 caggaagggtgagat 1897
XX |||||
XX 2262 CAGGAAGGGCTGAGAT 2246
XX
XX RESULT 65
XX X84103
XX ID X84103 standard; DNA; 2418 BP.
XX AC X84103;
XX DT 08-SEP-1999 (first entry)
XX DE E antigen precursor gene.
XX KW Tumour rejection antigen; vaccine; cancer; E antigen precursor gene; ss.
XX OS Homo sapiens.
XX PN US925729-A.
XX PD 20-JUL-1999.
XX PF 02-MAY-1994; 94US-0142368.
XX PR 02-MAY-1994; 94US-0142368.
XX PR 23-MAY-1991; 91US-0705702.
XX PR 09-JUL-1991; 91US-0728838.
XX PR 23-SEP-1991; 91US-0764365.
XX PR 12-DEC-1991; 91US-0807043.
XX (LUDW-); LUDWIG INST CANCER RES.
XX PA Boon T; Chomez P; De Plaen E; Lurquin C; Traversari C;
XX Van Den Eynde B; Van Der Bruggen P; Van Pel A;
XX WPI: 1999-418294/35.
XX New tumour rejection antigen is useful as a vaccine against
XX cancerous diseases

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XX T05086;
AC
XX
XX
XX 26-FEB-1996 (first entry)
XX
XX MZ2-MEL antigen E precursor gene.
XX
XX Melanoma; MZ2-MEL; tumour rejection antigen; cancer; diagnosis; ss.
XX
XX Homo sapiens.
XX
XX W09523874-A1.
XX
XX 08-SEP-1995.
XX
XX 23-FEB-1995; 95WO-US02203.
XX
XX 30-NOV-1994; 94US-0346774.
XX
XX 01-MAR-1994; 94US-0204727.
XX
XX 10-MAR-1994; 94US-0209172.
XX
XX 01-SEP-1994; 94US-0299849.
XX
XX (LUDW-) LUDWIG INST CANCER RES.
XX
XX Boon-Falleur T, Brasseur F, Chomez P, De Plaen E;
XX De Smet C, Gaugler B, Lethe B, Marchand M, Patard J;
XX Szikora J, Van Den Eynde B, Van Derbruggen P, Weynants P;
XX WPI; 1995-320586/41.
XX
XX Determn. of cancerous condition(s) - using a nucleic acid as a
XX primer to determine expression of a MAGE tumour rejection antigen
XX precursor
XX
XX Example 20; Page 69-70; 121pp; English.
XX
XX A gene sequence (T05086) hybridizes with a 2.4 kb fragment from
XX human melanoma cell line MZ2-MEL but not with E- antigen loss
XX variants of MZ2-MEL. This E precursor antigen gene sequence was
XX obtd. from a cosmid derived from DNA of the E+ subclone MZ2-MEL 43.
XX
XX Sequence 2419 BP; 560 A; 581 C; 677 G; 601 T; 0 other;
XX
XX
XX Query Match 0.6%; Score 17; DB 16; Length 2419;
XX Best Local Similarity 100.0%; Pred. No. 1.7e+02;
XX Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX Y 1652 ggtcctgggacccctgg 1668
XX |||||
XX 739 ggtcctgggacccctgg 755
XX
XX RESULT 69
XX X84112
XX ID X84112 standard; DNA; 2419 BP.
XX
XX AC X84112;
XX
XX 08-SEP-1999 (first entry)
XX
XX Antigen E coding sequence:
XX
XX Tumour rejection antigen; vaccine; cancer; antigen E; ss.
XX
XX Homo sapiens.
XX
XX US5925729-A.
XX
XX 20-JUL-1999.
XX
XX 02-MAY-1994; 94US-0142368.
XX

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PR 02-MAY-1994; 94US-0142368.
PR 23-MAY-1991; 91US-0705702.
PR 09-JUL-1991; 91US-0728838.
PR 23-SEP-1991; 91US-0764365.
PR 12-DEC-1991; 91US-0807043.
XX
XX (LUDW-) LUDWIG INST CANCER RES.
XX
XX Boon T, Chomez P, De Plaen E, Lurquin C, Traversari C;
XX Van Den Eynde B, Van Der Bruggen P, Van Pel A;
XX WPI; 1999-418294/35.
XX
XX New tumour rejection antigen is useful as a vaccine against
XX cancerous diseases
XX
XX Disclosure; Column 37-40; 58pp; English.
XX
XX This sequence represents the antigen E coding sequence.
XX The invention relates to a tumour rejection antigen sequence that is
XX useful as a tumour rejection antigen for vaccination against cancerous
XX conditions.
XX
XX Sequence 2419 BP; 562 A; 581 C; 677 G; 599 T; 0 other;
XX
XX
XX Query Match 0.6%; Score 17; DB 20; Length 2419;
XX Best Local Similarity 100.0%; Pred. No. 1.7e+02;
XX Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1652 ggtcctgggacccctgg 1668
XX |||||
XX 739 ggtcctgggacccctgg 755
XX
XX Db
XX
XX RESULT 70
XX Q72472
XX ID Q72472 standard; DNA; 2420 BP.
XX
XX AC Q72472;
XX
XX 21-JUN-1995 (first entry)
XX
XX Tumour rejection antigen E precursor gene DNA.
XX
XX Tumour antigen rejection precursor E; melanoma antigen-3; MAGE-3;
XX cancer; cytolytic T cells; antigen D; human leucocyte antigen; ss.
XX
XX Homo sapiens.
XX
XX W09423031-A.
XX
XX 13-OCT-1994.
XX
XX 17-MAR-1994; 94WO-US02877.
XX
XX 26-MAR-1993; 93US-0037230.
XX
XX (LUDW-) LUDWIG INST CANCER RES.
XX
XX Boon-falleur T, Gaugler B, Van Den Eynde B, Van Der Bruggen P;
XX WPI; 1994-333192/41.
XX
XX New tumour rejection antigen precursor MAGE3 - useful in
XX treatment and diagnosis of cancer
XX
XX Example 20; Page 28; 105pp; English.
XX
XX Q72472 is the tumour rejection antigen E precursor gene, another
XX gene Q72470 encodes melanoma antigen-3 (MAGE-3) also a tumour rejection
XX antigen precursor. Melanomas characterised by the expression of MAGE-3
XX can be detected, or monitored, by contacting a test sample with an

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agent that can recognise MAGE-3. The melanoma can be treated by the administration of cytolytic T cells specific for the complex of antigen D (the mature rejection antigen derived from MAGE-3) and a human leucocyte antigen (esp. HLA-A1).

Sequence 2420 BP; 562 A; 582 C; 677 G; 599 T; 0 other;

Query Match 0.6%; Score 17; DB 15; Length 2420;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1652 ggtcctgggacacctgg 1668
|||||

739 ggtcctgggacacctgg 755

RESULT 71

Q85435

Q85435 standard; DNA; 2420 BP.

Q85435;

09-OCT-1995 (first entry)

Human melanoma antigen MAGE-1.

Human melanoma antigen; MAGE-1; vaccines; MAGE associated tumours;
HLA-restricted cytotoxic T-lymphocyte activity; ss.

Homo sapiens.

Key Location/Qualifiers
CDS 626..1555
/*tag= a

W09504542-A.

16-FEB-1995.

02-AUG-1994; 94WO-US08721.

06-AUG-1993; 93US-0103623.

(CYTE-) CYTEL CORP.

Fikes JD, Livingston BD, Sette AD, Sidney JC;

WPI; 1995-090681/12.

P-PSDB; R70909.

Human melanoma antigen, MAGE-1, peptide(s) - useful for stimulating immune response against melanoma

Example 1; Fig 1; 59pp; English.

Q85435 encodes R70909 human melanoma antigen MAGE-1, it was used to produce the C-terminal MAGE-1 peptides described in R70915 to R70969. These peptides are useful for defining epitopes that engender a HLA-restricted cytotoxic lymphocyte activity against MAGE-1 antigens. Compsns. containing these peptides can be administered, as a vaccine to patients susceptible to MAGE associated tumours, e.g. melanomas.

Sequence 2420 BP; 562 A; 582 C; 677 G; 599 T; 0 other;

Query Match

Best Local Similarity 0.6%; Score 17; DB 16; Length 2420;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1652 ggtcctgggacacctgg 1668
|||||

Db	739 ggtcctgggacacctgg 755
RESULT 72	
V59595	
ID	V59595 standard; DNA; 2503 BP.
XX	
AC	V59595;
XX	
DT	06-JAN-1999 (first entry)
XX	
DE	Human secreted protein gene 85 clone HSDPV29.
XX	
KW	Human; secreted protein; fusion protein; gene therapy; protein therapy;
KW	diagnosis; tissue; cancer; tumour; neurodegenerative disorder; leukaemia;
KW	developmental abnormality; foetal deficiency; blood; allergy; renal; ds;
KW	immune system; asthma; lymphocytic disease; brain; hepatic; lymphoma;
KW	inflammation; ischaemic shock; Alzheimer's disease; restenosis; AIDS;
KW	cognitive disorder; schizophrenia; prostate; obesity; osteoclast; thymus;
KW	osteoporosis; arthritis; testis; lung; thyroiditis; thyroid; digestion;
KW	endocrine; metabolism; regulation; malabsorption; gastritis; neoplasm.
XX	
OS	Homo sapiens.
XX	
PN	WO9839448-A2.
XX	
PD	11-SEP-1998.
XX	
PF	06-MAR-1998; 98WO-US04493.
XX	
XX	02-OCT-1997; 97US-0061060.
PR	07-MAR-1997; 97US-0038621.
PR	07-MAR-1997; 97US-0040161.
PR	07-MAR-1997; 97US-0040162.
PR	07-MAR-1997; 97US-0040163.
PR	07-MAR-1997; 97US-0040333.
PR	07-MAR-1997; 97US-0040334.
PR	07-MAR-1997; 97US-0040336.
PR	07-MAR-1997; 97US-0040626.
PR	11-APR-1997; 97US-0043311.
PR	11-APR-1997; 97US-0043312.
PR	11-APR-1997; 97US-0043313.
PR	11-APR-1997; 97US-0043314.
PR	11-APR-1997; 97US-0043568.
PR	11-APR-1997; 97US-0043569.
PR	11-APR-1997; 97US-0043576.
PR	11-APR-1997; 97US-0043578.
PR	11-APR-1997; 97US-0043580.
PR	11-APR-1997; 97US-0043669.
PR	11-APR-1997; 97US-0043670.
PR	11-APR-1997; 97US-0043671.
PR	11-APR-1997; 97US-0043672.
PR	11-APR-1997; 97US-0043674.
PR	23-MAY-1997; 97US-0047492.
PR	23-MAY-1997; 97US-0047500.
PR	23-MAY-1997; 97US-0047501.
PR	23-MAY-1997; 97US-0047502.
PR	23-MAY-1997; 97US-0047503.
PR	23-MAY-1997; 97US-0047581.
PR	23-MAY-1997; 97US-0047582.
PR	23-MAY-1997; 97US-0047583.
PR	23-MAY-1997; 97US-0047584.
PR	23-MAY-1997; 97US-0047585.
PR	23-MAY-1997; 97US-0047586.
PR	23-MAY-1997; 97US-0047587.
PR	23-MAY-1997; 97US-0047588.
PR	23-MAY-1997; 97US-0047589.
PR	23-MAY-1997; 97US-0047590.
PR	23-MAY-1997; 97US-0047592.
PR	23-MAY-1997; 97US-0047593.
PR	23-MAY-1997; 97US-0047594.
PR	23-MAY-1997; 97US-0047595.
PR	23-MAY-1997; 97US-0047596.

23-MAY-1997; 97US-0047597.
 23-MAY-1997; 97US-0047598.
 23-MAY-1997; 97US-0047599.
 23-MAY-1997; 97US-0047600.
 23-MAY-1997; 97US-0047601.
 23-MAY-1997; 97US-0047612.
 23-MAY-1997; 97US-0047613.
 23-MAY-1997; 97US-0047614.
 23-MAY-1997; 97US-0047615.
 23-MAY-1997; 97US-0047617.
 23-MAY-1997; 97US-0047618.
 23-MAY-1997; 97US-0047632.
 23-MAY-1997; 97US-0047633.
 06-JUN-1997; 97US-0048964.
 06-JUN-1997; 97US-0048974.
 13-JUN-1997; 97US-0049610.
 08-JUL-1997; 97US-0051926.
 16-JUL-1997; 97US-0052874.
 18-AUG-1997; 97US-0055724.
 22-AUG-1997; 97US-0056630.
 22-AUG-1997; 97US-0056631.
 22-AUG-1997; 97US-0056632.
 22-AUG-1997; 97US-0056636.
 22-AUG-1997; 97US-0056637.
 22-AUG-1997; 97US-0056662.
 22-AUG-1997; 97US-0056664.
 22-AUG-1997; 97US-0056845.
 22-AUG-1997; 97US-0056862.
 22-AUG-1997; 97US-0056864.
 22-AUG-1997; 97US-0056872.
 22-AUG-1997; 97US-0056874.
 22-AUG-1997; 97US-0056875.
 22-AUG-1997; 97US-0056876.
 22-AUG-1997; 97US-0056877.
 22-AUG-1997; 97US-0056878.
 22-AUG-1997; 97US-0056879.
 22-AUG-1997; 97US-0056880.
 22-AUG-1997; 97US-0056881.
 22-AUG-1997; 97US-0056882.
 22-AUG-1997; 97US-0056884.
 22-AUG-1997; 97US-0056886.
 22-AUG-1997; 97US-0056887.
 22-AUG-1997; 97US-0056888.
 22-AUG-1997; 97US-0056889.
 22-AUG-1997; 97US-0056892.
 22-AUG-1997; 97US-0056893.
 22-AUG-1997; 97US-0056894.
 22-AUG-1997; 97US-0056903.
 22-AUG-1997; 97US-0056908.
 22-AUG-1997; 97US-0056909.
 22-AUG-1997; 97US-0056910.
 22-AUG-1997; 97US-0056911.
 05-SEP-1997; 97US-0057650.
 05-SEP-1997; 97US-0057669.
 05-SEP-1997; 97US-0057761.
 12-SEP-1997; 97US-0058785.
 (HUMA-) HUMAN GENOME SCI INC.
 Bedharik DP, Brewer LA, Carter KC, Duan R, Ebner R, Endress GA,
 Feng P, Ferrie AM, Fischer CL, Florence KA, Greene JM, Hu JS,
 Kyaw H, Lafleur DW, Li Y, Moore PA, Ni J, Olsen HS, Rosen CA,
 Ruben SM, Shi Y, Soppet DR, Young PE, Yu GL, Zeng Z;
 WPI: 1998-506364/43.
 P-PSDB; W74815.
 New isolated human genes and the secreted polypeptide(s) they encode
 useful for diagnosis and treatment of e.g. cancers, neurological
 disorders, immune diseases, inflammation or blood disorders
 Claim 1; Page 316-317; 721pp; English.

CC This sequence represents a nucleic acid molecule designated Gene 85 from
 CC the human cDNA clone HSDV29 (deposited as clone ATCC 209076) which
 CC encodes a secreted human protein. The gene can be used to generate
 CC fusion proteins by linking to the gene to a human immunoglobulin Fc
 CC portion (e.g. V59502) for increasing the stability of the fused protein
 CC as compared to the human protein only.
 CC The invention relates to 186 novel genes and their fragments (nucleic
 CC acid sequences: V59511-V59812; amino acid sequences W74731-W75026) which
 CC are useful for preventing, treating or ameliorating medical conditions
 CC e.g. by protein or gene therapy. Also, pathological conditions can be
 CC diagnosed by determining the amount of the new polypeptides in a sample
 CC or by determining the presence of mutations in the new polynucleotides.
 CC Specific uses are described for each of the 186 polynucleotides, based on
 CC which tissues they are most highly expressed in (see V59511 for described
 CC uses).
 XX
 SQ Sequence 2503 BP; 561 A; 705 C; 658 G; 568 T; 11 other;
 Query Match 0.6%; Score 17; DB 19; Length 2503;
 Best Local Similarity 100.0%; Pred. No. 1.7e+02;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2444 gctggcaggcgccctgg 2460
 Db 583 gctggcaggcgccctgg 599
 RESULT 73
 Z42096
 ID Z42096 standard; cDNA; 2646 BP.
 XX
 AC Z42096;
 XX
 DT 31-JAN-2000 (first entry)
 XX
 DE Human endometrium tumour cDNA derived EST 116.
 XX
 KW Endometrium; human; tumour; cancer; anticancer; cytostatic; EST;
 treatment; uterine; gene therapy; expressed sequence tag; ss.
 XX
 OS Homo sapiens.
 XX
 PN DE19817948-A1.
 XX
 PD 21-OCT-1999.
 XX
 PF 17-APR-1998; 98DE-1017948.
 XX
 PR 17-APR-1998; 98DE-1017948.
 XX
 PA (META-) METAGEN GES GENOMFORSCHUNG MBH.
 XX
 PI Rosenthal A, Specht T, Hinzmann B, Schmitt A, Pilarsky C, Dahl E;
 WPI: 1999-591957/51.
 DR P-PSDB; Y60295, Y60296, Y60297.
 XX
 PT New nucleic acid sequences expressed in uterine cancer tissues, and
 PT derived polypeptides, for treatment of uterine and endometrial cancer
 PT and identification of therapeutic agents
 XX
 PS Claim 3; Page 253; 444pp; German.
 XX
 CC This invention describes novel human nucleic acid (cDNA) sequences (A),
 CC that are highly expressed in uterine tumour tissue and which have
 CC anticancer and cytostatic activity. (A) are used (i) for recombinant
 CC expression of polypeptides (B) and (ii) to isolate complete genes. (B)
 CC are used (i) to identify agents suitable for treatment of uterine or
 CC endometrial cancer; (ii) directly for treating these forms of cancer
 CC (including expression from gene therapy vectors) and (iii) for generation
 CC of specific antibodies. (A) are identified by assembling ESTs (expressed
 CC sequence tags) from a particular tissue type before comparison of

expression patterns. This allows a significantly longer fragment of the gene to be revealed, so should reduce the number of failures associated with the fact that ESTs from different libraries may represent different parts of the same unknown gene, distorting the estimated frequency of occurrence in a particular tissue. Z41981-Z42121 represent EST fragments derived from a human endometrium tumour cDNA library which encode the protein sequences represented in Y59941-Y60328.

Sequence 2646 BP; 787 A; 502 C; 546 G; 811 T; 0 other;

Query Match 0.6%; Score 17; DB 20; Length 2646;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 1463 agccccagcagagaaaa 1479

1717 agccccagcagagaaaa 1733

RESULT 74

V68056
V68056 standard; DNA; 2711 BP.

V68056;

02-FEB-1999 (first entry)

Neurodegenerative polypeptide HHPDZ65 coding sequence.

Neurodegenerative polypeptide: HHPDZ65; stroke; pain; epilepsy; therapy;
neurodegenerative disease; ss.

Homo sapiens.

EP875570-A2.

04-NOV-1998.

15-APR-1998; 98EP-0302912.

19-FEB-1998; 98GB-0003566.

01-MAY-1997; 97GB-0008936.

18-DEC-1997; 97EP-0310289.

(SMIK) SMITHKLINE BEECHAM PLC.

Bingham S, Davis J, Doe TR, Harrison DC, Topp S;
WPI: 1998-559436/48.
P-PSDB; W80315.

HHPDZ65 polypeptide(s), their corresponding DNA, antibodies,
agonists and antagonists are useful in the treatment of stroke,
pain, epilepsy and neurodegenerative diseases

Claim 7; Page 14; 31pp; English.

This sequence encodes the HHPDZ65 neurodegenerative polypeptide of the invention. HHPDZ65 is useful for the treatment of stroke, pain, epilepsy, neurodegenerative diseases and others. The DNAs and proteins are useful in a method for screening to identify compounds which stimulate or inhibit the function of the HHPDZ65 proteins. The polypeptides are useful in a process for diagnosing a disease or a susceptibility to a disease in a subject related to expression or activity of the HHPDZ65 polypeptides.

Sequence 2711 BP; 559 A; 820 C; 852 G; 478 T; 2 other;

Query Match 0.6%; Score 17; DB 19; Length 2711;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2624 cacggtccccagagg 2640

Db 1879 cacggtccccagagg 1895

RESULT 75

N81166/C
N81166 standard; DNA; 2971 BP.

N81166;

29-OCT-1990 (first entry)

fdhF gene.

repression/expression of foreign genes by oxygen/formate; ss.

synthetic.

Key Location/Qualifiers
CDS 749..2896
/*tag= a
/product=fdhF
737..740
/*tag= b

RBS

FT

FT

FT

FT

FT

FT

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FT

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FT

FT

FT

XX Encodes partial murine Natural Killer receptor.
 XX NK; cytotoxic drugs; tumour cell; immunotherapy; mouse; ss.
 XX Mus musculus.

XX Key Location/Qualifiers

FT sig_peptide 1..21

FT /*tag= a

FT /note= "partial"

FT mat_peptide 22..2946

FT /*tag= b

FT /product= murine NK receptor

XX US7535206-A.

XX 09-JUL-1991.

XX 08-JUN-1990; 90US-0143578.

XX 08-JUN-1990; 90US-0535206.

XX (USSH) NAT INST OF HEALTH.

XX Ortaldo J, Young H, Anderson S;

XX WPI; 1991-245694/33.

XX P-PSDB; R13320.

XX DNA encoding a natural killer cell receptor - used to develop
 XX prods. for the immuno-detection and immuno-therapy of tumours

XX Disclosure; Fig 2; 30pp; English.

XX Overlapping clones which make up this sequence were isolated from
 XX a mouse Peripheral Blood Lymphocyte lambda gt10 cDNA library.
 XX The protein encoded by this sequence is purified and can mediate
 XX the cytolytic activity of mammalian cells. It specifically
 XX distinguishes tumour cells making it a candidate for the development
 XX of products for the immunodetection and immunotherapy of tumours.
 XX See also Q13114.

XX Sequence 3000 BP; 997 A; 661 C; 716 G; 626 T; 0 other;

XX Query Match 0.6%; Score 17; DB 12; Length 3000;

XX Best Local Similarity 100.0%; Pred. No. 1.7e+02;

XX Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX 684 tttcagactccgagtc 700

XX |||||

XX 2743 tttcagactccgagtc 2759

XX RESULT 77

XX V18471

XX V18471 standard; cDNA; 3156 BP.

XX V18471;

XX 14-SEP-1998 (first entry)

XX T-cell surface antigen CD97 cDNA.

XX T-cell surface antigen; CD97; human; inflammation; angiogenesis;

XX atherosclerosis; human; ss.

XX Homo sapiens.

XX Key Location/Qualifiers

XX 49..2556

XX /*tag= a

FT sig_peptide 49..99
 FT /*tag= b
 FT mat_peptide 100..2553
 FT /*tag= c
 XX WO9817796-A2.
 XX 30-APR-1998.
 XX 24-OCT-1997; 97WO-USI9772.
 XX 25-OCT-1996; 96US-0027871.
 XX (USSH) US DEPT HEALTH & HUMAN SERVICES.
 XX Kelly K;
 XX WPI; 1998-261492/23.
 XX P-PSDB; W48756.
 XX New soluble CD97 alpha subunit isoform(s) - used to develop
 XX products for the detection and treatment of inflammation,
 XX atherosclerosis and angiogenesis
 XX Disclosure; Fig 1; 101pp; English.

XX This polynucleotide comprises clone PAT276 that codes for human
 XX T-cell surface antigen CD97 (see W48756). It was isolated from a
 XX T-cell library enriched for mitogen-induced genes. The invention
 XX relates to the previously unrecognized alpha subunit of CD97 that
 XX acts in the establishment and maintenance of inflammation. Soluble
 XX CD97 acts as an adhesion factor for endothelial cells and smooth
 XX muscle cells, implicating it as a modulator of atherosclerosis.
 XX CD97 alpha also acts as a motility factor to cells bearing the
 XX alpha(V)beta3 receptor, indicative of a role in angiogenesis.
 XX Soluble CD97 alpha1, alpha2, and alpha3 subunits (having different
 XX combinations of EGF repeats) all originate as a proprotein with the
 XX beta subunit (see W48756). Host cells transfected with a nucleic
 XX acid encoding a CD97 alpha subunit are claimed. CD97 alpha
 XX subunit polypeptides, nucleic acids, antibodies and antagonists
 XX (e.g. CD97 subunit antisense nucleic acids) are used in claimed
 XX methods for: determining the degree of inflammation at a site;
 XX identifying compounds that inhibit soluble CD97 alpha subunit
 XX expression; inhibiting angiogenesis associated with chronic
 XX inflammation; inhibiting atherosclerosis; and treating or inhibiting
 XX CD97 associated inflammation.

XX Sequence 3156 BP; 652 A; 973 C; 860 G; 671 T; 0 other;

XX Query Match 0.6%; Score 17; DB 19; Length 3156;

XX Best Local Similarity 100.0%; Pred. No. 1.7e+02;

XX Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX 1336 ccaggaggaggagtcgag 1352

XX |||||

XX 2683 ccaggaggaggagtcgag 2699

XX RESULT 78

XX Z27969

XX ID Z27969 standard; DNA; 3156 BP.

XX AC Z27969;

XX 05-JAN-2000 (first entry)

XX Human CD97 protein encoding DNA.

XX Human; 7-transmembrane receptor; lectin-binding; mucin;

XX Olfactomedin; cellular adhesion; atherosclerosis; gene therapy;

XX vascular disease; CD97; ss.

XX

SS Homo sapiens.
 PN W09945111-A1.
 TX 10-SEP-1999.
 XX 04-MAR-1999; 99WO-US04676.
 PF 04-MAR-1998; 98US-0076782.
 XX (ICOS-) ICOS CORP.
 PA Hayflick JS;
 XX WPI: 1999-571596/48.
 DR P-PSDB; Y41090.
 XX New human lectomedin receptor polypeptide, used to identify specific
 PT binding partners for treating e.g. vascular disease
 XX Example 1; Page 106-110; 166pp; English.
 XX The invention provides purified and isolated human 7-transmembrane
 CC receptor lectomedin polypeptide or its fragments. The lectomedin
 CC polypeptide comprises extracellular lectin-binding, olfactomedin-like
 CC and mucin-like domains. The polypeptide can be produced by standard
 CC recombinant methodology. The polypeptide is involved in cellular adhesion
 CC and cytoplasmic metabolic pathways that are modulated by extracellular
 CC signaling. Specific binding to lectomedin-1 expressed on smooth muscle
 CC cells may be required for proliferation of these cells in
 CC atherosclerosis. The polypeptide is used to raise specific antibodies,
 CC and to identify specific binding agents that modulate (increase or
 CC decrease) its activity. The lectomedin nucleic acids are used as source
 CC of probes and primers, and of therapeutic antisense, ribozyme or triplex-
 CC forming agents, and in gene therapy to restore deficient lectomedin
 CC activity. Specific binding agents of lectomedin are used for treating
 CC diseases that involve lectomedin activity, e.g. vascular diseases such as
 CC atherosclerosis. The present sequence represents the DNA encoding the
 CC human CD97 protein.
 XX Sequence 3156 BP; 651 A; 974 C; 860 G; 671 T; 0 other;
 XX
 Query Match 0.6%; Score 17; DB 20; Length 3156;
 Best Local Similarity 100.0%; Pred. No. 1.7e-02;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX 1336 ccaggaggaggagtgccag 1352
 XX |||||
 XX 2683 ccaggaggaggagtgccag 2699
 XX
 RESULT 79
 Q48468/c
 Q48468 standard; cDNA; 3457 BP.
 Q48468;
 21-MAR-1994 (first entry)
 Nitrate reductase Nia2 gene derivative.
 Nitrate reductase; germination; flowering; ripening; development;
 growth stimulation; Agrobacterium tumefaciens; nitrate; ss.
 Nicotiana sp.
 Key Location/Qualifiers
 CDS 144..2858
 /*tag= a
 /product= Nitrate reductase.
 W09318154-A.

XX 16-SEP-1993.
 XX 05-MAR-1993; 93WO-FR00222.
 XX 05-MAR-1992; 92FR-0002658.
 XX (INRG) INRA INST NAT RECH AGRONOMIQUE.
 XX Caboché M, Chupeau Y, Dorlhac F, Morot-gaudry J;
 PI Vincentz M;
 XX WPI: 1993-303468/38.
 DR P-PSDB; R41757.
 XX Inducing over-expression of nitrate reductase in plants - esp. by
 PT incorporation of foreign gene, for stimulating early development
 PT and reducing nitrate accumulation
 XX Claim 7; Figure 3; 37pp; English.
 XX Overexpression of nitrate reductase (NR) can stimulate the early
 CC development of plants, shortening the duration of the vegetative
 CC phase and causing earlier germination, flowering and ripening by
 CC about two weeks. Overexpression of NR can also cause the level of
 CC nitrate stored in a plant to be reduced, reducing risks to health
 CC and also possibly improving organoleptic qualities. The NR gene was
 CC introduced into plants by transforming a strain of Agrobacterium
 CC tumefaciens with a plasmid and using it to infect the subject
 CC plant(s).
 XX Sequence 3457 BP; 1014 A; 700 C; 752 G; 991 T; 0 other;
 XX
 Query Match 0.6%; Score 17; DB 14; Length 3457;
 Best Local Similarity 100.0%; Pred. No. 1.7e+02;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 909 gaaggaagagagatttt 925
 XX |||||
 XX 94 GAAGGAAGAGAGATTTT 78
 XX
 RESULT 80
 T93499
 ID T93499 standard; cDNA; 3796 BP.
 XX T93499;
 XX AC
 XX 17-FEB-1998 (first entry)
 XX Xenopus frog protein "chordin" encoding cDNA.
 DE Xenopus protein; chordin; dorsal tissue; neural tissue; vertebrate;
 KW endodermal differentiation; treatment; neurodegenerative disease;
 KW nerve cell; transforming growth factor; TGF; secreted protein; ss.
 XX Xenopus laevis.
 OS
 XX
 FH Key Location/Qualifiers
 CDS 297..3122
 /*tag= a
 /product= Xenopus_protein_chordin
 FT sig_peptide 297..353
 /*tag= b
 /note= "hydrophobic signal peptide"
 FT mat_peptide 354..3179
 /*tag= c
 /note= "putative secreted protein"
 FT
 XX US5679783-A.
 XX 21-OCT-1997.
 PD

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XX 22-NOV-1994; 94US-0343760.
XX 22-NOV-1994; 94US-0343760.
XX (REGC ) UNIV CALIFORNIA.
XX De Robertis EM, Sasai Y;
XX WPI; 1997-525754/48.
XX P-PSDB; W31559.
XX DNA encoding Xenopus frog protein - that induces dorsal and neural
XX development and endodermal differentiation in vertebrates
XX Claim 1; Columns 19-22; 27pp; English.
XX This cDNA encodes a Xenopus protein "chordin". The functional recombinant
XX protein chordin has a defined sequence of 941 amino acids and can induce
XX dorsal and neural development and endodermal differentiation in
XX vertebrates. The presence of a hydrophobic signal sequence, four possible
XX N-glycosylation sites and conserved Cys-rich repeat regions suggest that
XX chordin is a secreted protein. The DNA sequence can be operatively linked
XX with an expression vector, to form a construct and a transformant can be
XX obtained by introducing the construct into a host. Chordin may be useful
XX as a component of culture media for culturing cells such as nerve or
XX muscle cells, for treating neurodegenerative diseases and damaged nerve
XX cells.
XX Sequence 3796 BP; 1046 A; 841 C; 958 G; 951 T; 0 other;

Query Match 0.6%; Score 17; DB 18; Length 3796;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

2Y 270 ctctacgtcttctccga 286
2D 1036 ctctacgtcttctccga 1052
|||||
|||||

RESULT 81
N70558
D N70558 standard; DNA; 4216 BP.
XX N70558;
XX 29-APR-1991 (first entry)
XX Sequence of nitrogen fixation gene H (nifH) promoter and coding
XX region and the nifH-nifD intergenic region.
XX Rhizobium expression vector; plant expression vector;
XX Bradyrhizobium; ss.
XX Rhizobium japonicum strain USDA 191.
XX Key Location/Qualifiers
XX promoter 1921..1929
XX promoter /*tag= a
XX promoter 1933..1936
XX RBS /*tag= b
XX /*tag= c
XX CDS 2012..2016
XX CDS 2024..2914
XX CDS /*tag= d
XX CDS 3011..4216
XX /*tag= e
XX misc_feature /label= nifD
XX 1770..2023
XX /*tag= f
XX /note= "claimed"

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XX EP211661-A.
XX 25-FEB-1987.
XX 07-AUG-1986; 86EP-0306105.
XX 07-AUG-1985; 85US-0763800.
XX (LUBR ) LUBRIZOL GENETICS I.
XX (LUBR-) LUBRIZOL GENETICS I.
XX Appelbaum ER;
XX WPI; 1987-051801/08.
XX Nif promoter of fast-growing Rhizobium japonicum - used to drive
XX transcription in rhizobium of heterologous structural genes
XX Disclosure; Fig 1; 37pp; English.
XX Since the promoter region of the nifH operon has been isolated,
XX characterised and cloned, it is possible to delete the nifH and
XX nifHD nitrogenase genes and replace them with structural genes
XX isolated from an extraneous source. The extraneous genes thus placed
XX under the control of the nifH promoter can then be inserted into a
XX plasmid vector followed by conjugation into a fast-growing R.
XX japonicum strain.
XX Sequence 4216 BP; 906 A; 1254 C; 1251 G; 793 T; 12 other;

Query Match 0.6%; Score 17; DB 8; Length 4216;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1213 agctcaacctcaccac 1229
DB 3903 agctcaacctcaccac 3919
|||||
|||||

RESULT 82
T45351
ID T45351 standard; CDNA; 4258 BP.
XX T45351;
XX 18-MAR-1997 (first entry)
XX Human colon carcinoma kinase 4 (CCK-4) CDNA.
XX Colon carcinoma kinase 4; CCK-4; receptor tyrosine kinase;
XX signal transduction; colon cancer; diagnosis; gene therapy; ss.
XX Homo sapiens.
XX Key Location/Qualifiers
XX CDS 193..3405
XX sig_peptide /*tag= a
XX 193..270
XX mat_peptide /*tag= b
XX 271..3402
XX /*tag= c
XX WO9637610-A2.
XX 28-NOV-1996.
XX 24-MAY-1996; 96WO-IB00696.
XX 25-MAY-1995; 95US-0452630.
XX (PLAC ) MAX PLANCK GES FOERDERUNG WISSENSCHAFTEN.

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15-JAN-1993; 93US-0003963.
 (HOSP-) HOSPITAL FOR SICK CHILDREN.
 (UNME-) UNITED MEDICAL & DENTAL SCHOOL GUYS.
 Buchwald M, Mathew CG, Strathdee CA, Wevrick R;
 WPI: 1993-368794/46.
 P-PSDB: R44139.
 Human cDNA which complements Fanconi Anaemia gp. C - used to develop prods. for use in diagnosis, study and therapy of Fanconi Anaemia
 Claim 1; Page 97-101; 137pp; English.
 The sequences given in Q51426-28 represent cDNA variants from the Fanconi Anemia Group C Complementing (FACC) cDNA. These three cDNA molecules are cellular variants of a single cDNA transcribed from the same gene. The three cDNAs each contain an identical open reading frame encoding the FACC protein. The FACC protein may be used for the diagnosis and study of Fanconi anemia.
 Sequence 4488 BP; 1052 A; 1092 C; 1168 G; 1176 T; 0 other;
 Query Match 0.6%; Score 17; DB 14; Length 4488;
 Best Local Similarity 100.0%; Pred. No. 1.7e+02;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 2105 tgaagccaccctggaag 2121
 |||||
 Db 4189 tgaagccaccctggaag 4205
 |||||
 RESULT 85
 Q33945
 V33945 standard; cDNA; 4567 BP.
 AC Q33945;
 15-FEB-1999 (first entry)
 Fanconi anaemia complementation group C (FAC) cDNA.
 Fanconi anaemia complementation group C; FAC; apoptosis; haematopoiesis; bone marrow; chemotherapy; gene therapy; human; ds.
 Homo sapiens.
 Key Location/Qualifiers
 CDS 256..1929
 /*tag= a
 W09851792-A1.
 19-NOV-1998.
 15-MAY-1998; 98WO-US09975.
 15-MAY-1997; 97US-0046546.
 (BGHM) BRIGHAM & WOMENS HOSPITAL.
 Yousseoufian H;
 WPI: 1999-009774/01.
 P-PSDB: W68546.
 New conjugate of Fanconi anaemia molecule and peptide selective for haematopoietic precursor cells - inhibits apoptosis of these cells, for treating Fanconi anaemia and patients undergoing high-dose chemotherapy for cancer

Claim 6; Page 40-45; 72pp; English.
 This cDNA clone includes a coding region for human Fanconi anaemia complementation group C (FAC, see W68546), a protein that modulates apoptosis in haematopoietic progenitor cells (HPC). The invention provides conjugates, including fusion proteins, comprising FAC and a targeting molecule which binds to a cell surface protein of the HPC and is internalised. Such targeting molecules include interleukin-3 (see W68547) and antibodies which recognise CD33 (see W68548-49). The conjugate, or a nucleic acid encoding it, can be used to deliver FAC to an HPC, specifically to inhibit apoptosis, particularly in patients exposed to high doses of chemotherapy for treatment of non-myeloid cancers, also to treat Fanconi anaemia (by complementation of the genetic defect). Treatment of HPC is done in vitro, ex vivo (e.g. for recombinant production of conjugate in cell cultures) or in vivo. Treatment with FAC may eliminate the need for extensive bone marrow transplants to restore haematopoiesis after chemotherapy.
 Sequence 4567 BP; 1080 A; 1135 C; 1177 G; 1175 T; 0 other;
 Query Match 0.6%; Score 17; DB 20; Length 4567;
 Best Local Similarity 100.0%; Pred. No. 1.7e+02;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 2105 tgaagccaccctggaag 2121
 |||||
 Db 4268 tgaagccaccctggaag 4284
 |||||
 RESULT 86
 Q32352
 Q32352 standard; DNA; 5674 BP.
 AC Q32352;
 22-APR-1993 (first entry)
 MAGE-1 nucleic acid.
 melanoma antigen; MAGE TRA; melanoma antigen tumor rejection antigen; tumor rejection antigen precursor; MAGE; antigen E; gene family; ss.
 Homo sapiens.
 Key Location/Qualifiers
 CDS 3881..4711
 /*tag= a
 W09220356-A.
 26-NOV-1992.
 22-MAY-1992; 92WO-US04354.
 23-MAY-1991; 91US-0705702.
 09-JUL-1991; 91US-0728838.
 23-SEP-1991; 91US-0764364.
 12-DEC-1991; 91US-0807043.
 (LUDW-) LUDWIG INST CANCER RES.
 Boon T, Chomez P, De Plaen E, Lurquin C, Traversari C;
 Van Den Eynde B, Van Der Bruggen P, Van Pel A;
 WPI: 1992-415460/50.
 Nucleic acid mol. encoding a human tumour rejection antigen precursor - useful as an immunostimulant in a vaccine for treating and preventing cancers, also useful in diagnosis

S Disclosure; Page 71-73; 142pp; English.
 XX The sequences given in Q32352-69 represent a new family of genes
 CC referred to as melanoma antigens (MAGE). The cDNAs of this gene
 CC family were identified during the isolation of the antigen E gene.
 CC The MAGE cDNAs, when tested, did not transfer expression of antigen
 CC E, but they did show substantial homology to the antigen E cDNA
 CC sequence. The MAGE DNAs share a certain degree of homology with each
 CC other and are expressed in tumour cells including several types of
 CC human tumor cells as well as in human tumors. MAGE expression is not
 CC restricted to melanomas. MAGE refers to a family of tumor rejection
 CC antigen precursors. The antigens resulting from these genes are
 CC referred to as MAGE TRAs or melanoma antigen tumor rejection antigens.
 CC See also Q32351.

Sequence 5674 BP; 1277 A; 1644 C; 1568 G; 1185 T; 0 other;

Query Match 0.6%; Score 17; DB 13; Length 5674;
 Best Local Similarity 100.0%; Pred. No. 1.7e+02; Indels 0; Gaps 0;
 Matches 17; Conservative 0; Mismatches 0;

Y 1652 ggtcctggggcaccctgg 1668
 |||||
 D 3994 ggtcctggggcaccctgg 4010

RESULT 87
 Q72477
 Q72477 standard; DNA; 5674 BP.

Q72477; 22-JUN-1995 (first entry)

Tumour rejection antigen MAGE-1 encoding DNA.
 Tumour rejection antigen; melanoma antigen-1; MAGE-3;
 cancer; cytolytic T cells; antigen D; human leucocyte antigen;
 ss.

Homo sapiens.

Key Location/Qualifiers
 CDS 3881..4711
 /*tag= a

W09423031-A.

13-OCT-1994.

17-MAR-1994; 94WO-US02877.

26-MAR-1993; 93US-0037230.

(LUDW-) LUDWIG INST CANCER RES.

Boon-falleur T, Gaugler B, Van Den EYNDE B, Van DER BRUGGEN P;

WPI; 1994-333192/41.

New tumour rejection antigen precursor MAGE3 - useful in
 treatment and diagnosis of cancer

Example 26; Page 59; 105pp; English.

Q72477 is the DNA sequence which encodes melanoma antigen-1
 (MAGE-1). Another melanoma antigen MAGE-3 is encoded by Q72470,
 this is a tumour rejection antigen precursor. Melanomas
 characterised by the expression of MAGE-3 can be detected, or
 monitored, by contacting a test sample with an agent that can
 recognise MAGE-3. The melanoma can be treated by the administration
 of cytolytic T cells specific for the complex of antigen D (the

CC mature rejection antigen derived from MAGE-3) and a human leucocyte
 CC antigen (esp. HLA-A1).

SQ Sequence 5674 BP; 1276 A; 1644 C; 1569 G; 1185 T; 0 other;

Query Match 0.6%; Score 17; DB 15; Length 5674;
 Best Local Similarity 100.0%; Pred. No. 1.7e+02; Indels 0; Gaps 0;
 Matches 17; Conservative 0; Mismatches 0;

QY 1652 ggtcctggggcaccctgg 1668
 |||||
 Db 3994 ggtcctggggcaccctgg 4010

RESULT 88
 X84113
 ID X84113 standard; DNA; 5674 BP.

XX X84113;

DT 08-SEP-1999 (first entry)

DE MAGE-1 gene.

KW Tumour rejection antigen; vaccine; cancer; MAGE-1 gene; ss.

OS Homo sapiens.

PN US5925729-A.

PD 20-JUL-1999.

PF 02-MAY-1994; 94US-0142368.

PR 02-MAY-1994; 94US-0142368.

PR 23-MAY-1991; 91US-0705702.

PR 09-JUL-1991; 91US-0728838.

PR 23-SEP-1991; 91US-0764365.

PR 12-DEC-1991; 91US-0807043.

(LUDW-) LUDWIG INST CANCER RES.

Boon T, Chomez P, De Plaen E, Lurquin C, Traversari C;
 PI Van Den Eynde B, Van Der Bruggen P, Van Pel A;

XX WPI; 1999-418294/35.

XX New tumour rejection antigen is useful as a vaccine against
 PT cancerous diseases

PS Disclosure; Column 39-46; 58pp; English.

CC This sequence represents the MAGE-1 gene sequence.
 CC The invention relates to a tumour rejection antigen sequence that is
 CC useful as a tumour rejection antigen for vaccination against cancerous
 CC conditions.

SQ Sequence 5674 BP; 1276 A; 1644 C; 1569 G; 1185 T; 0 other;

Query Match 0.6%; Score 17; DB 20; Length 5674;
 Best Local Similarity 100.0%; Pred. No. 1.7e+02;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1652 ggtcctggggcaccctgg 1668
 |||||
 Db 3994 ggtcctggggcaccctgg 4010

RESULT 89
 T42117
 ID T42117 standard; cDNA; 5720 BP.


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X C T42117;
X 22-JAN-1997 (first entry)
X Lats gene encoding large tumour suppressor.
X
X Lats gene; large tumour suppressor; Drosophila melanogaster;
X fruitfly; polyadenylation site; protein-serine/threonine-kinase;
X cell proliferation; antisense; dominant-negative; cancer;
X degenerative disorder; trauma; growth deficiency; therapy;
X antitumour; vulnary; diagnostic; transgenic plant;
X transgenic animal; growth; senescence; ds.
X
X Drosophila melanogaster.
X
X Key Location/Qualifiers
X misc_feature 1..191
X /tag= a
X /note= "Sequence from clone cDNA-9"
X
X 5'UTR 1..1102
X /tag= b
X /tag= 81
X
X misc_feature 192..5720
X /tag= c
X /note= "A in genomic sequence"
X
X misc_feature 302..303
X /tag= d
X /note= "Sequence from clone cDNA-A2"
X
X conflict 330
X /tag= e
X /note= "Intron-1 splice site"
X
X conflict 330
X /tag= f
X /note= "T in genomic sequence"
X
X conflict 606..608
X /tag= g
X /note= "GGA in genomic sequence"
X
X conflict 821
X /tag= h
X /note= "G in genomic sequence"
X
X conflict 834
X /tag= i
X /note= "A in genomic sequence"
X
X CDS 1103..4402
X /tag= j
X /product= Large tumour suppressor (lats protein)
X
X misc_feature 1225..1226
X /tag= k
X /note= "Intron-2 splice site"
X
X mutation 1371..1818
X /tag= l
X /note= "lats-al deletion"
X
X conflict 1447
X /tag= m
X /note= "C in genomic sequence"
X
X conflict 1719
X /tag= n
X /note= "G in genomic sequence"
X
X conflict 1939
X /tag= o
X /note= "T in genomic sequence"
X
X conflict 2137
X /tag= p
X /note= "C in genomic sequence"
X
X conflict 2431
X /tag= q
X /note= "C in genomic sequence"
X
X conflict 2458
X /tag= r
X /note= "T in genomic sequence"
X
X conflict 2551
X /tag= s
X /note= "G in genomic sequence"
X

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FT conflict 2554
FT /tag= t
FT /note= "G in genomic sequence"
FT conflict 2555
FT /tag= u
FT /note= "AAC in genomic sequence"
FT conflict 2556
FT /tag= v
FT /note= "A in genomic sequence"
FT conflict 2593
FT /tag= w
FT /note= "G in genomic sequence"
FT conflict 2646
FT /tag= x
FT /note= "GGAGCGGGATCAAC insertion in genomic DNA"
FT 3488..3489
FT /tag= y
FT /note= "Intron-3 splice site"
FT misc_feature 3609..3610
FT /tag= z
FT /note= "Intron-4 splice site"
FT misc_feature 3725..3726
FT /tag= aa
FT /note= "Intron-5 splice site"
FT misc_feature 3804..3805
FT /tag= ab
FT /note= "Intron-6 splice site"
FT conflict 3889
FT /tag= ac
FT /note= "A in genomic sequence"
FT conflict 3937
FT /tag= ad
FT /note= "C in genomic sequence"
FT conflict 3940
FT /tag= ae
FT /note= "T in genomic sequence"
FT misc_feature 4000..4001
FT /tag= af
FT /note= "Intron-7 splice site"
FT conflict 4021
FT /tag= ag
FT /note= "T in genomic sequence"
FT conflict 4021
FT /tag= ah
FT /note= "C in genomic sequence"
FT conflict 4210
FT /tag= ai
FT /note= "G in genomic sequence"
FT conflict 4300
FT /tag= aj
FT /note= "C in genomic sequence"
FT conflict 4309
FT /tag= ak
FT /note= "C in genomic sequence"
FT 3'UTR 4402..5720
FT /tag= al
FT polyA_signal 4654..4660
FT /tag= am
FT conflict 4797
FT /tag= an
FT /note= "G in genomic sequence"
FT conflict 4828..4837
FT /tag= ao
FT /note= "Deleted in genomic DNA"
FT conflict 4871
FT /tag= ap
FT /note= "C in genomic sequence"
FT conflict 4974
FT /tag= aq
FT /note= "T in genomic sequence"
FT misc_feature 5013..5153
FT /tag= ar
FT /note= "Region identical to plc-21 transcript"
FT

```

conflict 5101 /tag= as
 /note= "C in genomic sequence"
 conflict 5104..5114 /tag= at
 /note= "TGTAATTAGTG in genomic sequence"
 conflict 5143 /tag= au
 /note= "A in genomic sequence"
 conflict 5147 /tag= av
 /note= "A in genomic sequence"
 conflict 5151..5169 /tag= aw
 /note= "GTGGCCCCCTCCCTCCCTCCTCAT in genomic sequence"
 conflict 5247..5253 /tag= ax
 /note= "Deleted in genomic DNA"
 conflict 5646..5663 /tag= ay
 /note= "AAAGCAAATTAATAAT in genomic sequence"
 polyA_signal 5657..5663 /tag= az
 WO9630402-A1.
 03-OCT-1996.
 26-MAR-1996; 96WO-US04101.
 27-MAR-1995; 95US-041111.
 (UYA) UNIV YALE.
 Tao W, Wang W, Xu T, Yu W, Zhang S;
 WPI: 1996-455275/45.
 P-PSDB; W05177.
 New isolated large tumour suppressor gene - used to develop prods.
 for inhibiting cell proliferation or for enhancing proliferation
 Disclosure; Page 109-115; 215pp; English.
 This sequence encodes the Drosophila melanogaster large tumour
 suppressor lats protein, and is a composite of 2 cDNAs (an initial
 fragment from cDNA-9 and the rest from cDNA-A2). The sequence has
 been isolated from a total imaginal disc cDNA library. The
 corresponding genomic sequence is identical, except for 34 minor
 differences, and has 7 introns. Two consensus polyadenylation sites
 are present. A 141-bp sequence at the 3'-end of the lats transcript
 is identical to the 5'-end of the untranslated sequence of the
 Query Match 0.6%; Score 17; DB 17; Length 5720;
 Best Local Similarity 100.0%; Pred. No. 1.7e+02;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 814 tgggtctcaagcaag 830
 |||||
 4820 tgggtctcaagcaag 4836
 RESULT 90
 51508
 251508 standard; DNA; 5720 BP.
 251508;
 21-JUN-2000 (first entry)
 Drosophila melanogaster Lats (large tumour suppressor) DNA.

KW Fruit fly; Lats; large tumour suppressor; cytostatic; vulnary;
 KW cell overproliferation inhibitor; cdc2; cell cycle-dependent kinase;
 KW treatment; screening; cancer; skin; ovarian tumour;
 KW soft tissue sarcoma; pituitary disorder; gene therapy; hyperplasia;
 KW LH; luteinizing hormone hypogonadotropic hypogonadism; metaplasia;
 KW dysplasia; degenerative disorder; growth deficiency; physical trauma;
 KW hypoproliferative disorder; lesion; wound; lats knock-out mouse; ds.
 XX
 OS Drosophila melanogaster.
 XX
 FH Key Location/Qualifiers
 CDS 1103..4402
 FT /tag= a
 FT /product= "Lats protein"
 FT polyA_signal 4555..4560
 FT /tag= b
 FT misc_feature 5013..5142
 FT /tag= c
 FT /note= "This region is identical to the 1-141
 FT nucleotides of Drosophila plc-21 transcript"
 XX
 PN WO200010602-A1.
 XX
 PD 02-MAR-2000.
 XX
 PF 18-AUG-1999; 99WO-US19068.
 XX
 PR 18-AUG-1998; 98US-0096996.
 PR 18-AUG-1998; 98US-0096997.
 XX
 PA (UYA) UNIV YALE.
 XX
 XU Xu T, Tao W, St John MAR, Fei X, Fukumoto RK, Zhang S;
 PI Turenchaik GS, Stewart RA;
 XX
 DR WPI: 2000-246496/21.
 DR P-PSDB; Y70393.
 XX
 PT Use of lats proteins, complexes of lats and cdc2 for treating cancer
 PT that is refractory to treatment by standard chemotherapy and radiation
 PT therapy, and disorders associated with aberrant levels of cdc2 activity
 XX
 PS Claim 44; Fig 15; 134pp; English.
 XX
 CC The present sequence is a DNA encoding Drosophila lats (large tumour
 CC suppressor) protein which is a cell overproliferation inhibitor and a
 CC negative regulator of cell cycle-dependent kinase cdc2/cyclin A.
 CC The present sequence is useful for treating cancer that is refractory
 CC to standard chemotherapy or radiation therapy such as hyperplasia,
 CC metaplasia, or dysplasia, and disorders associated with aberrant
 CC levels of cdc2 activity. Conditions treated by promoting cdc2 function
 CC include degenerative disorders, growth deficiencies, hypoproliferative
 CC disorders, physical trauma, lesions, and wounds. An animal model
 CC preferably a mouse, in which a lats gene has been disrupted by homologous
 CC recombination, e.g. a lats knock-out mouse, is used for screening
 CC compounds that can be used to treat or prevent cancer, particularly
 CC skin cancer, soft tissue sarcomas and ovarian tumours, and disorders
 CC associated with pituitary dysfunction e.g. luteinizing hormone (LH)
 CC hypogonadotropic hypogonadism. The lats DNA is also used in gene therapy.
 XX
 SQ Sequence 5720 BP; 1684 A; 1491 C; 1457 G; 1088 T; 0 other;

Query Match 0.6%; Score 17; DB 21; Length 5720;
 Best Local Similarity 100.0%; Pred. No. 1.7e+02;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 814 tgggtctcaagcaag 830
 |||||
 DB 4820 tgggtctcaagcaag 4836


```
XX W09818931-A2.
XX
XX PD 30-DEC-1998.
XX
XX PF 23-JUN-1998; 98WO-US13041.
XX
XX PR 24-JUN-1997; 97US-0050667.
XX
XX PA (HUMA-) HUMAN GENOME SCI INC.
XX
XX PI Fraser CM;
XX
XX DR WPI; 1999-081273/07.
XX
XX PT New isolated Treponema pallidum nucleic acids - used to develop
XX products for the detection, diagnosis, characterisation, prevention
XX and therapy of T. pallidum infections, particularly syphilis
XX
XX PS Claim 1; Page 491-497; 1150pp; English.
XX
XX CC X20500-21243 represent polynucleotide sequences from the genome of
XX Treponema pallidum. The sequences can be used for detection,
XX diagnosis, characterisation, prevention and therapy for T. pallidum
XX infections, particularly syphilis. They can also be used for detecting
XX diseases related to Borrelia infections in animals, and for the
XX production of biosynthetic products such as enzymes.
XX
XX SQ Sequence 10461 BP; 2325 A; 3411 C; 2493 G; 2213 T; 19 other;

Query Match 0.6%; Score 17; DB 20; Length 10461;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 161 ggggcacctgcgcacgc 177
Db 6768 ggggcacctgcgcacgc 6784

RESULT 95
V74675
ID V74675 standard; DNA; 10813 BP.
XX
XX AC V74675;
XX
XX DT 16-MAR-1999 (first entry)
XX
XX DE Staphylococcus aureus contig SEQ ID #364.
XX
XX KW Computer readable medium; vaccine; S.aureus infection; immunodetection;
XX cellulitis; eyelid infection; food poisoning; osteomyelitis; therapy;
XX skin infection; surgical wound infection; scalded skin syndrome;
XX toxic shock syndrome; ds.
XX
XX OS Staphylococcus aureus.
XX
XX FH Key Location/Qualifiers
XX FT misc_feature 301..360
XX FT /*tag= a
XX FT /*note= "these bases represent a line of missing text in
XX FT the sequence listing in the specification. They
XX FT are included to maintain the nucleotide numbering
XX FT given in the specification for this DNA sequence"
XX FT misc_feature 2101..2160
XX FT /*tag= b
XX FT /*note= "these bases represent a line of missing text in
XX FT the sequence listing in the specification. They
XX FT are included to maintain the nucleotide numbering
XX FT given in the specification for this DNA sequence"
XX FT misc_feature 3901..3960
XX FT /*tag= c
XX FT /*note= "these bases represent a line of missing text in
XX FT the sequence listing in the specification. They
XX FT are included to maintain the nucleotide numbering
XX FT given in the specification for this DNA sequence"

The present invention describes a computer readable medium which has
the nucleotide sequences SEQ ID NO:1 to 391 (V52134 to V52524) recorded
on it, or a representative fragment or a sequence at least 95% identical
to SEQ ID NO:1 to 391. The nucleotide sequences depicted in SEQ ID NO:1
to 391 (V52134 to V52524) are genomic fragments from Streptococcus
pneumoniae. The present invention also describes an isolated nucleic acid
molecule encoding a homologue of any of the fragments of the S.pneumoniae
genome (SEQ ID NO:1 to 391) where the nucleic acid molecule is produced
by a process comprising: (a) screening a genomic DNA library using as a
probe a target sequence defined by any of the sequences in SEQ ID NO:1
to 391, identifying members of the library which contain sequences
that hybridise to the target sequence and isolating the nucleic acid
molecules from the members; or (b) isolating mRNA, DNA or cDNA produced
from an organism, amplifying nucleic acid molecules whose nucleotide
sequence is homologous to amplification primers derived from the
fragment of the S. pneumoniae genome to prime the amplification and
isolating the amplified sequences. The computer readable medium can be
used in a computer-based system for identifying fragments of the
S. pneumoniae genome of commercial importance, or expression modulating
fragments of the S. pneumoniae genome. Products from the present
invention can be used in diagnosis kits and assays, and pharmaceutical
compositions and vaccines for S. pneumoniae.

Sequence 10240 BP; 2865 A; 1914 C; 2390 G; 3068 T; 3 other;

Query Match 0.6%; Score 17; DB 19; Length 10240;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 1947 gatttgaagaggttca 1963
D 7643 gatttgaagaggttca 7659

RESULT 94
X20553
X20553 standard; DNA; 10461 BP.
XX
XX X20553;
XX
XX X 05-MAY-1999 (first entry)
XX
XX PT Polynucleotide sequence from the genome of Treponema pallidum.
XX
XX W Treponema pallidum infection; syphilis; Borrelia infection; animal;
XX enzyme production; ds.
XX
XX S Treponema pallidum.
XX
XX W09859034-A2.
```


CC The nestin protein can be used in diagnosing tumours of the brain,
CC such as medulloblastomas, glioblastomas and oligodendroglioma.
CC (See also Q70448).

CC Sequence 11236 BP; 2876 A; 2678 C; 3258 G; 2424 T; 0 other;

CC Query Match 0.6%; Score 17; DB 15; Length 11236;
CC Best Local Similarity 100.0%; Pred. No. 1.7e+02;
CC Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CC 1877 ccttcaggaaaggctg 1893
CC |||||
CC 3466 ccttcaggaaaggctg 3482

CC RESULT 97

CC X20535/c
CC X20535 standard; DNA; 21170 BP.

CC X20535;

CC 05-MAY-1999 (first entry)

CC Polynucleotide sequence from the genome of Treponema pallidum.

CC Treponema pallidum infection; syphilis; Borrelia infection; animal;
CC enzyme production; ds.

CC Treponema pallidum.

CC WO9859034-A2.

CC 30-DEC-1998.

CC 23-JUN-1998; 98WO-US13041.

CC 24-JUN-1997; 97US-0050667.

CC (HUMA-) HUMAN GENOME SCI INC.

CC Fraser CM;

CC WPI; 1999-081273/07.

CC New isolated Treponema pallidum nucleic acids - used to develop
CC products for the detection, diagnosis, characterisation, prevention
CC and therapy of T. pallidum infections, particularly syphilis

CC Claim 1; Page 389-401; 1150pp; English.

CC X20500-21243 represent polynucleotide sequences from the genome of
CC Treponema pallidum. The sequences can be used for detection,
CC diagnosis, characterisation, prevention and therapy for T. pallidum
CC infections, particularly syphilis. They can also be used for detecting
CC diseases related to Borrelia infections in animals, and for the
CC production of biosynthetic products such as enzymes.

CC Sequence 21170 BP; 4629 A; 5015 C; 6107 G; 5390 T; 29 other;

CC Query Match 0.6%; Score 17; DB 20; Length 21170;
CC Best Local Similarity 100.0%; Pred. No. 1.6e+02;
CC Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CC 85 ccgacgcaccatgctg 101
CC |||||
CC 1835 CCGACGCCACCATGCTG 1819

CC RESULT 98

CC X83005
CC X83005 standard; DNA; 29604 BP.

XX AC

XX X83005;

XX DT 31-AUG-1999 (first entry)

XX DE Partial mouse WRN genomic sequence #1.

XX KW Mouse; WRN; Werner's syndrome; detection; diagnosis; autosomal;
XX recessive disorder; phenotype; ss.

XX OS Mus musculus.

XX PN WO9724435-A1.

XX PD 10-JUL-1997.

XX PF 30-DEC-1996; 96WO-US20785.

XX PR 12-APR-1996; 96US-0632175.

XX PR 29-DEC-1995; 95US-0009409.

XX PR 29-DEC-1995; 95US-0580539.

XX PR 30-JAN-1996; 96US-0010835.

XX PR 30-JAN-1996; 96US-0594242.

XX PA (DARW-) DARWIN MOLECULAR CORP.

XX PA (OSHI/) OSHIMA J.

XX PI Fu Y, Mulligan J, Oshima J, Schellenberg GD, Yu C;

XX DR WPI; 1997-363671/33.

XX Isolated nucleic acid molecule encoding the WRN gene product -

XX useful for detection and treatment of Werner's syndrome, and related

XX diseases

XX Claim 1; Fig 7; 153pp; English.

XX This sequence represents a fragment of the genomic sequence containing
XX the coding region for the mouse WRN gene (X83004). The corresponding
XX human gene (X83001) encodes a protein related to Werner's syndrome.

XX The products can be used for the detection and treatment of Werner's
XX syndrome (WS), an autosomal recessive disorder with a complex phenotype,
XX as well as related diseases.

XX Sequence 29604 BP; 7634 A; 5861 C; 5985 G; 10123 T; 1 other;

CC Query Match 0.6%; Score 17; DB 18; Length 29604;
CC Best Local Similarity 100.0%; Pred. No. 1.6e+02;
CC Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 525 aaaggaataagaactggc 541

Db 14826 aaaggaataagaactggc 14842

RESULT 99

ID Z30163/c
ID Z30163 standard; DNA; 34094 BP.

XX AC Z30163;

XX DT 26-JAN-2000 (first entry)

XX DE Complete nucleotide sequence of the PAV-3 genome.

XX PAV-3; defective recombinant PAV vector; live recombinant virus;

XX subunit vaccine; nucleic acid immunisation; gene therapy;

XX genetic disease; hemophilia; cystic fibrosis; cancer; viral infection;

XX acquired immune deficiency syndrome; PAV antigen; porcine pathogen; ds.

XX Porcine adenovirus Type 3.

XX OS

PN W09953047-A2.
XX 21-OCT-1999.
PD 15-APR-1999; 99WO-US08220.
XX 15-APR-1998; 98US-0081882.
XX (UYSA-) UNIV SASKATCHEWAN.
XX Reddy PS, Tikoo SK, Babiuk LA;
XX WPI; 1999-620422/53.
XX New nucleic acids from the genome of porcine adenovirus-3, and derived
XX gene therapy vectors, particularly for immunization
XX
XX Example 2; Fig 1; 87pp; English.
XX The present sequence represents the complete nucleotide sequence of the
XX genome of porcine adenovirus-3 (PAV-3). The specification also describes
XX a defective recombinant PAV vector comprising inverted terminal repeats
XX (ITR), packaging sequences and at least one heterologous nucleotide
XX sequence (II), but lacking E1 functions. The defective vectors replicate
XX inefficiently in cells (other than helper cells) so are unlikely to be
XX immunogenic. Deletion of the E1 (and optionally other regions) increases
XX the size of heterologous insert that can be packaged. The PAV-3
XX polynucleotide sequences are used to produce (recombinant or defective)
XX vectors that can express heterologous proteins, e.g. for making live,
XX recombinant virus or subunit vaccines, for nucleic acid immunisation or
XX for gene therapy (e.g. of genetic diseases such as hemophilia or cystic
XX fibrosis, cancer, or viral infections, including acquired immune
XX deficiency syndrome), also for in vitro expression of recombinant
XX antigens (for antibody production), antisense RNA, ribozymes or
XX therapeutic proteins. They are also used diagnostically to detect PAV
XX antigens and/or nucleic acid. The vectors may be used in human or
XX veterinary medicine, but particularly for expressing protective
XX determinants of porcine pathogens. Regulatory regions may be used to
XX control expression of heterologous genes. Antibodies raised against PAV-3
XX polypeptides can also be used for diagnosis (to detect PAV-specific
XX antigen).
XX
XX Sequence 34094 BP; 6240 A; 11070 C; 10693 G; 6091 T; 0 other;
XX
XX Query Match 0.6%; Score 17; DB 20; Length 34094;
XX Best Local Similarity 100.0%; Pred. No. 1.6e+02;
XX Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 330 ctcacgagcaggacacaa 346
XX |||||
XX 4686 CTCATGACGAGGACACAA 4670
XX
XX RESULT 100
XX 32020/C
XX 32020 standard; DNA; 38734 BP.
XX
XX 32020;
XX
XX 10-JAN-2000 (first entry)
XX
XX Human METH1 related EST AL021529.
XX
XX Human; METH1; METH2; anti-angiogenic; metalloprotease thrombospondin;
XX cancer; diagnosis; hyperproliferative disorder; autoimmune disease;
XX angiogenesis inhibitor; abnormal wound healing; inflammation;
XX rheumatoid arthritis; psoriasis; endometrial bleeding disorder;
XX diabetic retinopathy; macula degeneration; haemangioma; detection;
XX arterial-venous malformation; immune deficiency; ss.
XX
XX Homo sapiens.

PN W09937660-A1.
XX 29-JUL-1999.
PD 22-JAN-1999; 99WO-US01313.
XX 23-JAN-1998; 98US-0072298.
XX 28-AUG-1998; 98US-0098539.
XX (IRUE/) IRUELA-ARISPE L.
XX (HAST/) HASTINGS G A.
XX (RUBE/) RUBEN S M.
XX
XX Iruela-Arispe L, Hastings GA, Ruben SM;
XX WPI; 1999-590684/50.
XX
XX New isolated metalloprotease thrombospondin polypeptides, useful for
XX treating hyperproliferative disorders, cancers or autoimmune disorders
XX
XX Disclosure; Page 296-321; 457pp; English.
XX
XX 232000 and 232001 encode, and Y49501 and Y49502 represent, human
XX metalloprotease thrombospondin (METH) proteins METH1 and METH2
XX respectively. METH1 and METH2 have been found to be potent inhibitors of
XX angiogenesis both in vitro and in vivo. They can be used for treating
XX cancer and other disorders related to angiogenesis including abnormal
XX wound healing, inflammation, rheumatoid arthritis, psoriasis,
XX endometrial bleeding disorders, diabetic retinopathy, some forms of
XX macula degeneration, haemangiomas, and arterial-venous malformations.
XX They may be useful in treating deficiencies or disorders of the immune
XX system, by activating or inhibiting the proliferation, differentiation,
XX or mobilisation (chemotaxis) of immune cells. The etiology of these
XX immune deficiencies or disorders may be genetic, somatic, such as
XX cancer or some autoimmune disorders, acquired (e.g. by chemotherapy or
XX toxins), or infectious. They can also be used to treat inflammatory
XX conditions, both chronic and acute conditions. The products can also be
XX used for detection and diagnosis. 232002 to 232080, and Y49503 to Y49511
XX represent sequences given in the exemplification of the present
XX invention.
XX
XX Sequence 38734 BP; 6142 A; 13140 C; 13585 G; 5867 T; 0 other;
XX
XX Query Match 0.6%; Score 17; DB 20; Length 38734;
XX Best Local Similarity 100.0%; Pred. No. 1.6e+02;
XX Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 11 ggtgaccgcgcgcttc 27
XX |||||
XX 37241 GGTGACCGCGGCTTTC 37225
XX
XX Search completed: February 18, 2001, 16:04:40
XX Job time: 25989 sec

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DM nucleic - nucleic search, using sw model

Run on: February 18, 2001, 07:28:55 ; Search time 96.47 Seconds
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4941.559 Million cell updates/sec

Title: US-09-434-382-3
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Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 280836 seqs, 80580151 residues

Word size : 0

Total number of hits satisfying chosen parameters: 561672

Minimum DB seq length: 0
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Post-processing: Listing first 100 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	ID	Description
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2	19	0.6	3000	2	US-08-867-941-8	Sequence 8, Appli
3	19	0.6	7641	2	US-08-867-941-6	Sequence 6, Appli
4	18	0.6	1152	3	US-09-045-186-1	Sequence 1, Appli
5	18	0.6	1152	3	US-09-045-186-3	Sequence 3, Appli
6	18	0.6	2186	2	US-08-878-546-9	Sequence 9, Appli
7	18	0.6	2605	2	US-08-680-395-4	Sequence 4, Appli
8	17	0.6	289	2	US-08-967-101-23	Sequence 23, Appli
9	17	0.6	289	2	US-08-592-541-23	Sequence 23, Appli
10	17	0.6	289	3	US-09-124-698-23	Sequence 23, Appli
11	17	0.6	304	2	US-08-611-757-20	Sequence 20, Appli
12	17	0.6	304	4	PCT-US95-05360-20	Sequence 20, Appli
13	17	0.6	1084	2	US-08-184-009-110	Sequence 110, App
14	17	0.6	1084	2	US-08-458-356-110	Sequence 110, App
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19	17	0.6	1816	2	US-08-951-148-2	Sequence 2, Appli
20	17	0.6	1816	2	US-09-165-234-2	Sequence 2, Appli
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25	17	0.6	2419	3	US-08-967-727-7	Sequence 7, Appli
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27	17	0.6	3457	1	US-08-295-882-1	Sequence 1, Appli
28	17	0.6	3796	1	US-08-343-760A-1	Sequence 1, Appli

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6	5674	2	US-08-142-368A-8	Sequence 8, Appli
7	5674	3	US-08-967-727-8	Sequence 8, Appli
8	5674	3	US-08-321-478-6	Sequence 6, Appli
9	11236	1	US-07-853-913-1	Sequence 1, Appli
10	29604	3	US-08-781-891-207	Sequence 207, App
11	68750	3	US-09-335-409-1	Sequence 1, Appli
12	76	1	US-07-753-110B-12	Sequence 12, Appli
13	76	1	US-08-503-730-16	Sequence 16, Appli
14	76	2	US-08-507-634-13	Sequence 13, Appli
15	105	3	US-08-717-294-93	Sequence 93, Appli
16	233	2	US-08-687-080-70	Sequence 70, Appli
17	252	2	US-08-630-822A-97	Sequence 97, Appli
18	252	2	US-09-005-069-97	Sequence 97, Appli
19	252	3	US-08-906-769-104	Sequence 104, App
20	252	3	US-08-906-616-104	Sequence 104, App
21	252	3	US-08-817-795-104	Sequence 104, App
22	252	4	PCT-US95-075A-104	Sequence 104, App
23	252	4	PCT-US95-144A-104	Sequence 104, App
24	294	2	US-08-611-757-98	Sequence 98, Appli
25	294	4	PCT-US95-05980-98	Sequence 98, Appli
26	486	2	US-08-937-931-9	Sequence 9, Appli
27	489	1	US-08-334-254-7	Sequence 7, Appli
28	489	2	US-08-848-131-7	Sequence 7, Appli
29	489	4	PCT-US95-14792-7	Sequence 7, Appli
30	575	1	US-08-507-016-8	Sequence 8, Appli
31	578	4	PCT-US91-06418-4	Sequence 4, Appli
32	609	3	US-08-338-579A-94	Sequence 94, Appli
33	654	2	US-08-911-319A-2	Sequence 2, Appli
34	654	2	US-09-352-819-2	Sequence 2, Appli
35	714	1	US-07-789-738-3	Sequence 3, Appli
36	773	1	US-07-789-738-5	Sequence 5, Appli
37	808	3	US-08-651-136C-15	Sequence 15, Appli
38	815	3	US-08-906-769-128	Sequence 128, App
39	815	3	US-08-906-616-128	Sequence 128, App
40	815	3	US-08-639-075A-128	Sequence 128, App
41	1031	3	US-08-651-136C-19	Sequence 19, Appli
42	1048	3	US-08-651-136C-17	Sequence 17, Appli
43	1152	2	US-08-933-750C-81	Sequence 81, Appli
44	1152	3	US-09-234-613-81	Sequence 81, Appli
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46	1329	3	US-08-360-758-1	Sequence 1, Appli
47	1333	3	US-08-889-425-3	Sequence 3, Appli
48	1341	3	US-09-032-372-9	Sequence 9, Appli
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50	1362	2	US-08-785-396-7	Sequence 7, Appli
51	1389	1	US-08-458-023B-1	Sequence 1, Appli
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53	1524	1	US-08-135-510-4	Sequence 4, Appli
54	1524	1	US-08-483-852-4	Sequence 4, Appli
55	1524	1	US-08-477-953-4	Sequence 4, Appli
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61	1713	2	US-08-467-948A-1	Sequence 1, Appli
62	1713	3	US-08-467-947A-1	Sequence 1, Appli
63	1721	1	US-07-688-352C-13	Sequence 13, Appli
64	1721	2	US-08-474-379C-13	Sequence 13, Appli
65	1721	3	US-09-146-249A-13	Sequence 13, Appli
66	1721	3	US-08-206-188B-13	Sequence 13, Appli
67	1721	4	PCT-US91-02714-13	Sequence 13, Appli
68	1766	2	US-08-481-814A-2	Sequence 2, Appli
69	1790	2	US-08-993-228-1	Sequence 1, Appli
70	1977	3	US-09-231-529-2	Sequence 2, Appli
71	1990	3	US-09-255-911-1	Sequence 1, Appli
72	2069	1	US-08-619-554-7	Sequence 7, Appli

ALIGNMENTS

```
RESULT 1
US-08-867-941-9
Sequence 9, Application US/08867941
Patent No. 5977337
GENERAL INFORMATION:
APPLICANT: Loosmore, Sheena M
APPLICANT: Du, Run-Pan
APPLICANT: Wang, Quijun
APPLICANT: Yang, Yan-Ping
APPLICANT: Klein, Michel H
TITLE OF INVENTION: LACTOFERRIN RECEPTOR GENES OF MORAXELLA
NUMBER OF SEQUENCES: 67
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sim & McBurney
STREET: 6th Floor, 330 University Avenue
CITY: Toronto
STATE: Ontario
COUNTRY: Canada
ZIP: M5G 1R7
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/867,941
FILING DATE: 03-JUN-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Stewart, Michael I
REGISTRATION NUMBER: 24,973
REFERENCE/DOCKET NUMBER: 1038-681 MIS:jb
TELECOMMUNICATION INFORMATION:
TELEPHONE: (416) 595-1155
TELEFAX: (416) 595-1163
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 2955 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-867-941-9

Query Match 0.6%; Score 19; DB 2; Length 2955;
Best Local Similarity 100.0%; Pred. No. 7.5;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 811 ttcttggtgctcaagcaaa 829
      |||
D 591 TCTTGTGCTCAAGCAAA 609

RESULT 2
US-08-867-941-8
Sequence 8, Application US/08867941
Patent No. 5977337
GENERAL INFORMATION:
APPLICANT: Loosmore, Sheena M
APPLICANT: Du, Run-Pan
APPLICANT: Wang, Quijun
APPLICANT: Yang, Yan-Ping
APPLICANT: Klein, Michel H
TITLE OF INVENTION: LACTOFERRIN RECEPTOR GENES OF MORAXELLA
NUMBER OF SEQUENCES: 67
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sim & McBurney
STREET: 6th Floor, 330 University Avenue
CITY: Toronto
```

```
STATE: Ontario
COUNTRY: Canada
ZIP: M5G 1R7
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/867,941
FILING DATE: 03-JUN-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Stewart, Michael I
REGISTRATION NUMBER: 24,973
REFERENCE/DOCKET NUMBER: 1038-681 MIS:jb
TELECOMMUNICATION INFORMATION:
TELEPHONE: (416) 595-1155
TELEFAX: (416) 595-1163
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 3000 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-867-941-8

Query Match 0.6%; Score 19; DB 2; Length 3000;
Best Local Similarity 100.0%; Pred. No. 7.5;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 811 ttcttggtgctcaagcaaa 829
      |||
DB 636 TCTTGTGCTCAAGCAAA 654

RESULT 3
US-08-867-941-6
Sequence 6, Application US/08867941
Patent No. 5977337
GENERAL INFORMATION:
APPLICANT: Loosmore, Sheena M
APPLICANT: Du, Run-Pan
APPLICANT: Wang, Quijun
APPLICANT: Yang, Yan-Ping
APPLICANT: Klein, Michel H
TITLE OF INVENTION: LACTOFERRIN RECEPTOR GENES OF MORAXELLA
NUMBER OF SEQUENCES: 67
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sim & McBurney
STREET: 6th Floor, 330 University Avenue
CITY: Toronto
STATE: Ontario
COUNTRY: Canada
ZIP: M5G 1R7
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/867,941
FILING DATE: 03-JUN-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Stewart, Michael I
REGISTRATION NUMBER: 24,973
REFERENCE/DOCKET NUMBER: 1038-681 MIS:jb
TELECOMMUNICATION INFORMATION:
TELEPHONE: (416) 595-1155
TELEFAX: (416) 595-1163
INFORMATION FOR SEQ ID NO: 6:
```

SEQUENCE CHARACTERISTICS:
LENGTH: 7641 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-867-941-6

Query Match 0.6%; Score 19; DB 2; Length 7641;
Best Local Similarity 100.0%; Pred. No. 7.6;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

2y 811 tcttggtcctcaagcaaa 829
2b 3656 tcttggtcctcaagcaaa 3674

RESULT 4
US-09-045-186-1/c
Sequence 1, Application US/09045186
Patent No. 6087154
GENERAL INFORMATION:
APPLICANT: Baez, Melvyn
TITLE OF INVENTION: RHESUS NEUROPEPTIDE Y1 RECEPTOR
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: Eli Lilly and Company
STREET: Lilly Corporate Center
CITY: Indianapolis
STATE: Indiana
COUNTRY: United States of America
ZIP: 46285
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA: US/09/045.186
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Gaylo, Paul J.
REGISTRATION NUMBER: P-11376
REFERENCE/DOCKET NUMBER: P-11376
TELECOMMUNICATION INFORMATION:
TELEPHONE: (317) 276-0756
TELEFAX: (317) 276-3861
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1152 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1152
US-09-045-186-1

Query Match 0.6%; Score 18; DB 3; Length 1152;
Best Local Similarity 100.0%; Pred. No. 23;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

2y 2802 aaagaagctcttggaaca 2819
2b 1091 AAAGAAGCTCTTGGAAACA 1074

RESULT 5
US-09-045-186-3/c

Sequence 3, Application US/09045186
Patent No. 6087154
GENERAL INFORMATION:
APPLICANT: Baez, Melvyn
TITLE OF INVENTION: RHESUS NEUROPEPTIDE Y1 RECEPTOR
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: Eli Lilly and Company
STREET: Lilly Corporate Center
CITY: Indianapolis
STATE: Indiana
COUNTRY: United States of America
ZIP: 46285
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA: US/09/045.186
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Gaylo, Paul J.
REGISTRATION NUMBER: P-11376
REFERENCE/DOCKET NUMBER: P-11376
TELECOMMUNICATION INFORMATION:
TELEPHONE: (317) 276-0756
TELEFAX: (317) 276-3861
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1152 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: mRNA
US-09-045-186-3

Query Match 0.6%; Score 18; DB 3; Length 1152;
Best Local Similarity 100.0%; Pred. No. 23;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2802 aaagaagctcttggaaca 2819
Db 1091 AAAGAAGCTCTTGGAAACA 1074

RESULT 6
US-08-878-546-9
Sequence 9, Application US/08878546
Patent No. 5952463
GENERAL INFORMATION:
APPLICANT: SHIBANO, YUJI
APPLICANT: KIKUCHI, NORIHISA
APPLICANT: ODA, KOHEI
TITLE OF INVENTION: NOVEL PROTEINASE INHIBITOR AND
TITLE OF INVENTION: GENE ENCODING THE INHIBITOR
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: STEINBERG, RASKIN & DAVIDSON P.C.
STREET: 1140 AVENUE OF THE AMERICAS
CITY: NEW YORK
STATE: NY
COUNTRY: USA
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/878,546
 FILING DATE: 19-JUN-1997
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 158677/1996
 FILING DATE: 19-JUN-1996
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 224104/1996
 FILING DATE: 26-AUG-1996
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 48101/1997
 FILING DATE: 03-MAR-1997
 ATTORNEY/AGENT INFORMATION:
 NAME: DAVIDSON, CLIFFORD M.
 REGISTRATION NUMBER: 32,728
 REFERENCE/DOCKET NUMBER: 382.1009
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212)-768-3800
 TELEFAX: (212)382-2124
 INFORMATION FOR SEQ ID NO: 9:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2186 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 ORGANISM: STREPTOMYCES PLATENSIS
 STRAIN: Q268
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1477..1911
 US-08-878-546-9

Query Match 0.6%; Score 18; DB 2; Length 2186;
 Best Local Similarity 100.0%; Pred.No. 23;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 1652 ggtcctgggacccctggc 1669
 |||||
 D 1518 GGTCTGGGACCCCTGGC 1535

RESULT 7
 US-08-680-395-4/c
 Sequence 4, Application US/08680395
 Patent No. 5892010
 GENERAL INFORMATION:
 APPLICANT: Gray, Joe W.
 APPLICANT: Collins, Colin
 APPLICANT: Hwang, Soo-In
 APPLICANT: Godfrey, Tony
 APPLICANT: Kowbel, David
 APPLICANT: Rommens, Johanna
 TITLE OF INVENTION: Genes from the 20q13 Amplicon and Their
 NUMBER OF SEQUENCES: 40
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Townsend and Townsend and Crew LLP
 STREET: Two Embarcadero Center, Eighth Floor
 CITY: San Francisco
 STATE: California
 COUNTRY: USA
 ZIP: 94111-3834
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/680,395
 FILING DATE: 15-JUL-1996
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Bastian, Kevin L.
 REGISTRATION NUMBER: 34,774
 REFERENCE/DOCKET NUMBER: 023070-068900US
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (415) 576-0200
 TELEFAX: (415) 576-0300
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2605 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: -
 LOCATION: 1..2605
 OTHER INFORMATION: /note= "cDNA clone cc43 of 4 kb
 transcript"
 US-08-680-395-4

Query Match 0.6%; Score 18; DB 2; Length 2605;
 Best Local Similarity 100.0%; Pred.No. 23;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 448 ttccaaagtgtgtacttt 465
 |||||
 Db 1421 TTCCAAAGTGTGTACTTT 1404

RESULT 8
 US-08-967-101-23/c
 Sequence 23, Application US/08967101
 Patent No. 5840540
 GENERAL INFORMATION:
 APPLICANT: ST. GEORGE-HYSLOP, PETER H
 APPLICANT: ROMMENS, JOHANNA M
 APPLICANT: FRASER, PAUL E
 TITLE OF INVENTION: GENETIC SEQUENCES AND PROTEINS RELATED
 TO ALZHEIMER'S DISEASE
 NUMBER OF SEQUENCES: 193
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: TESTA, HURWITZ & THIBEAULT
 STREET: High Street Tower - 125 High Street
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: U.S.A.
 ZIP: 02110
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/967,101
 FILING DATE: 10-NOV-1997
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/592,541
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Pitcher, Edmund R.
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 248-7000
 TELEFAX: (617) 248-7100
 INFORMATION FOR SEQ ID NO: 23:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 289 base pairs
 TYPE: nucleic acid

```
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
'S-08-967-101-23

Query Match          0.6%; Score 17; DB 2; Length 289;
Best Local Similarity 100.0%; Pred. No. 71;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

'y 2131 aagaggaagcagtgaa 2147
   |||||||
'b 267 AAGAGGAAGCAGTGGA 251

RESULT 9
'S-08-592-541-23/c
Sequence 23, Application US/08592541
Patent No. 5986054
GENERAL INFORMATION:
APPLICANT: ST. GEORGE-HYSLOP, PETER H
APPLICANT: ROMMENS, JOHANNA M
APPLICANT: FRASER, PAUL E
TITLE OF INVENTION: GENETIC SEQUENCES AND PROTEINS RELATED
TO ALZHEIMER'S DISEASE
NUMBER OF SEQUENCES: 183
CORRESPONDENCE ADDRESS:
ADDRESSEE: TESTA, HURWITZ & THIBEAULT
STREET: High Street Tower - 125 High Street
CITY: Boston
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02110
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/592,541
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/592,541
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Pitcher, Edmund R.
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 248-7000
TELEFAX: (617) 248-7100
INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 289 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-09-124-698-23

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/592,541
FILING DATE:
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Pitcher, Edmund R.
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 248-7000
TELEFAX: (617) 248-7100
INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 289 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
'S-08-592-541-23

Query Match          0.6%; Score 17; DB 2; Length 289;
Best Local Similarity 100.0%; Pred. No. 71;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

'y 2131 aagaggaagcagtgaa 2147
   |||||||
'b 267 AAGAGGAAGCAGTGGA 251

RESULT 10
'S-09-124-698-23/c
Sequence 23, Application US/09124698
Patent No. 611978
GENERAL INFORMATION:
APPLICANT: ST. GEORGE-HYSLOP, PETER H
APPLICANT: ROMMENS, JOHANNA M
```

```
APPLICANT: FRASER, PAUL E
TITLE OF INVENTION: GENETIC SEQUENCES AND PROTEINS RELATED
TO ALZHEIMER'S DISEASE
NUMBER OF SEQUENCES: 183
CORRESPONDENCE ADDRESS:
ADDRESSEE: TESTA, HURWITZ & THIBEAULT
STREET: High Street Tower - 125 High Street
CITY: Boston
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02110
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/124,698
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/592,541
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Pitcher, Edmund R.
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 248-7000
TELEFAX: (617) 248-7100
INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 289 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-09-124-698-23

Query Match          0.6%; Score 17; DB 3; Length 289;
Best Local Similarity 100.0%; Pred. No. 71;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2131 aagaggaagcagtgaa 2147
   |||||||
Db 267 AAGAGGAAGCAGTGGA 251

RESULT 11
US-08-611-757-20/c
Sequence 20, Application US/08611757
Patent No. 5859230
GENERAL INFORMATION:
APPLICANT: Kim, Jungsuh P.
APPLICANT: Reyes, Gregory R.
APPLICANT: Wages, John
APPLICANT: Zhang-Keck, Zhen-Yang
APPLICANT: Young, Lavonne
TITLE OF INVENTION: NO. 5859230-A/No. 5859230-B/No. 5859230-C/No. 5859230-D/No.
NUMBER OF SEQUENCES: 106
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dehlinger & Associates
STREET: 350 Cambridge Avenue, Suite 250
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94306
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
```

APPLICATION NUMBER: US/08/611,757
 FILING DATE: 05/08/98
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/246,985
 FILING DATE: 20-MAY-1994
 APPLICATION NUMBER: US 025,396
 FILING DATE: 24-FEB-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/922,493
 FILING DATE: 30-JUL-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Fabian, Gary R.
 REGISTRATION NUMBER: 33,875
 REFERENCE/DOCKET NUMBER: 4600-0201
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (415) 324-0880
 TELEFAX: (415) 324-0960
 INFORMATION FOR SEQ ID NO: 20:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 304 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 INDIVIDUAL ISOLATE: My 190 Clone D30
 PCT-US95-05980-20

Query Match 0.6%; Score 17; DB 2; Length 304;
 Best Local Similarity 100.0%; Pred. No. 71;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 132 cgcgcgagcgccgcg 148
 |||||
 Db 22 CGCCGCGAGCGCGCG 6

RESULT 12
 PCT-US95-05980-20/c
 Sequence 20, Application PC/TUS9505980
 GENERAL INFORMATION:
 APPLICANT:
 APPLICANT: Dehlinger & Associates
 TITLE OF INVENTION: Non-A/Non-B/Non-C/Non-D/Non-E Hepatitis
 TITLE OF INVENTION: Agents and Molecular Cloning Thereof
 NUMBER OF SEQUENCES: 106
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Dehlinger & Associates
 STREET: 350 Cambridge Avenue, Suite 250
 CITY: Palo Alto
 STATE: CA
 COUNTRY: USA
 ZIP: 94306
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US95/05980
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/246,986
 FILING DATE: 20-MAY-1994
 ATTORNEY/AGENT INFORMATION:
 NAME: Fabian, Gary R.
 REGISTRATION NUMBER: 33,875
 REFERENCE/DOCKET NUMBER: 4600-0201.49

TELECOMMUNICATION INFORMATION:
 TELEPHONE: (415) 324-0880
 TELEFAX: (415) 324-0960
 INFORMATION FOR SEQ ID NO: 20:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 304 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 INDIVIDUAL ISOLATE: My 190 Clone D30
 PCT-US95-05980-20
 Query Match 0.6%; Score 17; DB 4; Length 304;
 Best Local Similarity 100.0%; Pred. No. 71;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 132 cgcgcgagcgccgcg 148
 |||||
 Db 22 CGCCGCGAGCGCGCG 6

RESULT 13
 US-08-184-009-110
 Sequence 110, Application US/08184009
 Patent No. 5833975
 GENERAL INFORMATION:
 APPLICANT: Paoletti, Enzo
 APPLICANT: Tartaglia, James
 APPLICANT: Cox, William I.
 TITLE OF INVENTION: RECOMBINANT VIRUS IMMUNOTHERAPY
 NUMBER OF SEQUENCES: 217
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Curtis, Morris & Safford
 STREET: 530 Fifth Avenue
 CITY: New York
 STATE: NY
 COUNTRY: USA
 ZIP: 10036
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/184,009
 FILING DATE: 19-JAN-1994
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Frommer, William S.
 REGISTRATION NUMBER: 25,506
 REFERENCE/DOCKET NUMBER: 454310-2530
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 840-3333
 TELEFAX: (212) 840-0712
 TELEX: 425066CURTMS
 INFORMATION FOR SEQ ID NO: 110:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1084 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 US-08-184-009-110
 Query Match 0.6%; Score 17; DB 2; Length 1084;
 Best Local Similarity 100.0%; Pred. No. 72;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 1652 ggtcctgggcacctgg 1668
| | | | | | | | | | | | | |
b 292 GGTCTGGGCACCTGG 308

RESULT 14

US-08-458-356-110 ;
Sequence 110, Application US/08458356
Patent No. 5942235
GENERAL INFORMATION:
APPLICANT: Paoletti, Enzo
APPLICANT: Tartaglia, James
APPLICANT: Cox, William I.
TITLE OF INVENTION: RECOMBINANT VIRUS IMMUNOTHERAPY
NUMBER OF SEQUENCES: 217
CORRESPONDENCE ADDRESS:
ADDRESSEE: Curtis, Morris & Safford
STREET: 530 Fifth Avenue
CITY: New York
STATE: NY
COUNTRY: USA
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/458,356
FILING DATE: 02-JUN-1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/184,009
FILING DATE: 19-JAN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Frommer, William S.
REGISTRATION NUMBER: 25,506
REFERENCE/DOCKET NUMBER: 454310-2530
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 840-3333
TELEFAX: (212) 840-0712
TELEX: 425066CURTMS
INFORMATION FOR SEQ ID NO: 110:
SEQUENCE CHARACTERISTICS:
LENGTH: 1084 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-08-458-356-110

Query Match 0.6%; Score 17; DB 2; Length 1084;
Best Local Similarity 100.0%; Pred. No. 72;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 1652 ggtcctgggcacctgg 1668
| | | | | | | | | | | | | |
b 292 GGTCTGGGCACCTGG 308

RESULT 15

US-08-184-009-109 ;
Sequence 109, Application US/08184009
Patent No. 5833975
GENERAL INFORMATION:
APPLICANT: Paoletti, Enzo
APPLICANT: Tartaglia, James
APPLICANT: Cox, William I.
TITLE OF INVENTION: RECOMBINANT VIRUS IMMUNOTHERAPY
NUMBER OF SEQUENCES: 217
CORRESPONDENCE ADDRESS:

ADDRESSEE: Curtis, Morris & Safford
STREET: 530 Fifth Avenue
CITY: New York
STATE: NY
COUNTRY: USA
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/184,009
FILING DATE: 19-JAN-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Frommer, William S.
REGISTRATION NUMBER: 25,506
REFERENCE/DOCKET NUMBER: 454310-2530
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 840-3333
TELEFAX: (212) 840-0712
TELEX: 425066CURTMS
INFORMATION FOR SEQ ID NO: 109:
SEQUENCE CHARACTERISTICS:
LENGTH: 1094 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-08-184-009-109

Query Match 0.6%; Score 17; DB 2; Length 1094;
Best Local Similarity 100.0%; Pred. No. 72;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 1652 ggtcctgggcacctgg 1668
| | | | | | | | | | | | | |
b 314 GGTCTGGGCACCTGG 330

RESULT 16

US-08-458-356-109
Sequence 109, Application US/08458356
Patent No. 5942235
GENERAL INFORMATION:
APPLICANT: Paoletti, Enzo
APPLICANT: Tartaglia, James
APPLICANT: Cox, William I.
TITLE OF INVENTION: RECOMBINANT VIRUS IMMUNOTHERAPY
NUMBER OF SEQUENCES: 217
CORRESPONDENCE ADDRESS:
ADDRESSEE: Curtis, Morris & Safford
STREET: 530 Fifth Avenue
CITY: New York
STATE: NY
COUNTRY: USA
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/458,356
FILING DATE: 02-JUN-1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/184,009
FILING DATE: 19-JAN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Frommer, William S.

REGISTRATION NUMBER: 25,506
REFERENCE/DOCKET NUMBER: 454310-2530
TELEPHONE: (212) 840-3333
TELEFAX: (212) 840-0712
TELEX: 425066CURTMS
INFORMATION FOR SEQ ID NO: 109:
SEQUENCE CHARACTERISTICS:
LENGTH: 1094 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-08-458-356-109

Query Match 0.6%; Score 17; DB 2; Length 1094;
Best Local Similarity 100.0%; Pred. No. 72;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1652 ggtctctgggcaccctgg 1668
Db 314 GGTCTCTGGGCACCTGG 330

RESULT 17
US-08-993-118-8
; Sequence 8, Application US/08993118
; Patent No. 5997872
; GENERAL INFORMATION:
; APPLICANT: LUCAS, Sophie;
; APPLICANT: DE SMET, Charles;
; APPLICANT: BOON-FALLEUR, Thierry
; TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE CODING FOR TUMOR
; TITLE OF INVENTION: REJECTION ANTIGEN PRECURSOR MAGE-C1 AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felfe & Lynch
; STREET: 805 Third Avenue
; CITY: New York City
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 360 kb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/993,118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/845,528
; FILING DATE: April 25, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Mary Anne Schofield
; REGISTRATION NUMBER: 36,669
; REFERENCE/DOCKET NUMBER: LUD 5455
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1691 base pairs
; TYPE: nucleotides
; STRANDEDNESS: single stranded
; TOPOLOGY: linear
US-08-993-118-8

Query Match 0.6%; Score 17; DB 2; Length 1691;

Best Local Similarity 100.0%; Pred. No. 72;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1652 ggtctctgggcaccctgg 1668
Db 317 GGTCTCTGGGCACCTGG 333

RESULT 18
US-08-845-528C-8
; Sequence 8, Application US/08845528C
; Patent No. 6027924
; GENERAL INFORMATION:
; APPLICANT: LUCAS, Sophie;
; APPLICANT: DE SMET, Charles;
; APPLICANT: BOON-FALLEUR, Thierry
; TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE CODING FOR TUMOR
; TITLE OF INVENTION: REJECTION ANTIGEN PRECURSOR MAGE-C1 AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felfe & Lynch
; STREET: 805 Third Avenue
; CITY: New York City
; STATE: New York
; COUNTRY: USA
; ZIP: 10022

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 360 kb storage
COMPUTER: IBM PS/2
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/845,528C
FILING DATE: April 25, 1997
CLASSIFICATION: 4335
ATTORNEY/AGENT INFORMATION:
NAME: Mary Anne Schofield
REGISTRATION NUMBER: 36,669
REFERENCE/DOCKET NUMBER: LUD 5455
TELEPHONE: (212) 688-9200
TELEFAX: (212) 838-3884
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 1691 base pairs
TYPE: nucleotides
STRANDEDNESS: single stranded
TOPOLOGY: linear
US-08-845-528C-8

Query Match 0.6%; Score 17; DB 3; Length 1691;
Best Local Similarity 100.0%; Pred. No. 72;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1652 ggtctctgggcaccctgg 1668
Db 317 GGTCTCTGGGCACCTGG 333

RESULT 19
US-08-951-148-2
; Sequence 2, Application US/08951148
; Patent No. 5871973
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Bandman, Olga
; APPLICANT: Kal, Preeti
; APPLICANT: Shah, Purvi
; TITLE OF INVENTION: CELL DIVISION REGULATORS
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:

ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/951,148
FILING DATE: Herewith
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0407 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-855-0555
TELEFAX: 650-845-4166
TELEX:
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 1816 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: SPLNFT01
CLONE: 26459

Query Match 0.6%; Score 17; DB 2; Length 1816;
Best Local Similarity 100.0%; Pred. No. 72;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 804 ggaactcttgggtgct 820
|||||

Db 717 GGAACCTCTTGGTGCT 733

RESULT 20

US-09-165-234-2
Sequence 2, Application US/09165234
Patent No. 5928899
GENERAL INFORMATION:
APPLICANT: Hillman, Jennifer L.
APPLICANT: Bandman, Olga
APPLICANT: Lal, Preeti
APPLICANT: Shah, Purvi
TITLE OF INVENTION: CELL DIVISION REGULATORS
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/165,234
FILING DATE:

CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/951,148
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0407 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-855-0555
TELEFAX: 650-845-4166
TELEX:
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 1816 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: SPLNFT01
CLONE: 26459

US-09-165-234-2

Query Match 0.6%; Score 17; DB 2; Length 1816;
Best Local Similarity 100.0%; Pred. No. 72;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 804 ggaactcttgggtgct 820
|||||

Db 717 GGAACCTCTTGGTGCT 733

RESULT 21

US-09-274-570-2
Sequence 2, Application US/09274570
Patent No. 6121019
GENERAL INFORMATION:
APPLICANT: Hillman, Jennifer L.
APPLICANT: Bandman, Olga
APPLICANT: Lal, Preeti
APPLICANT: Shah, Purvi
TITLE OF INVENTION: CELL DIVISION REGULATORS
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/274,570
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/951,148
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0407 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-855-0555
TELEFAX: 650-845-4166
TELEX:
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:

LENGTH: 1816 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 IMMEDIATE SOURCE:
 LIBRARY: SPLNFT01
 CLONE: 26459
 S-09-274-570-2

Query Match 0.6%; Score 17; DB 3; Length 1816;
 Best Local Similarity 100.0%; Pred. No. 72;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 804 ggaactctttgtgct 820
 |||||
 DB 717 GGAACCTCTGGTCT 733

RESULT 22

US-07-807-043B-7
 ; Sequence 7, Application US/07807043B
 ; Patent No. 5342774

GENERAL INFORMATION:

APPLICANT: Boon, Thierry, Van den Eynde, Beno t
 TITLE OF INVENTION: Tumor Rejection Antigen Precursors, Tumor
 TITLE OF INVENTION: Rejection Antigens and Uses Thereof
 NUMBER OF SEQUENCES: 16
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Felfe & Lynch
 STREET: 805 Third Avenue
 CITY: New York City
 STATE: New York
 ZIP: 10022

COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage

COMPUTER: IBM
 OPERATING SYSTEM: PC-DOS

SOFTWARE: Wordperfect
 CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/807,043B
 FILING DATE: 19911212

CLASSIFICATION: 424

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/764,364

FILING DATE: 23-SEPTEMBER-1991
 PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/728,838
 FILING DATE: 9-JULY-1991

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/705,702

FILING DATE: 23-May-1991
 ATTORNEY/AGENT INFORMATION:

NAME: Hanson, No. 5342774man D.
 REGISTRATION NUMBER: 30,946

REFERENCE/DOCKET NUMBER: LUD 253.3
 TELEPHONE: (212) 688-9200

TELEFAX: (212) 838-3884
 INFORMATION FOR SEQ ID NO: 7:

SEQUENCE CHARACTERISTICS:
 LENGTH: 2419 base pairs

TYPE: NUCLEIC ACID
 STRANDEDNESS: singular

TOPOLOGY: linear
 MOLECULE TYPE: genomic DNA

US-07-807-043B-7

Query Match 0.6%; Score 17; DB 1; Length 2419;
 Best Local Similarity 100.0%; Pred. No. 73;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1652 ggtcctgggacccctgg 1668
 |||||
 DB 739 GGTCTGGGACCCCTGG 755

RESULT 23

US-08-299-849B-7
 ; Sequence 7, Application US/08299849B
 ; Patent No. 5612201

GENERAL INFORMATION:

APPLICANT: De Plaen, Etienne; Boon-Falleur, Thierry;
 APPLICANT: Leth, Bernard; Szikora, Jean-Pierre; De Smet, Charles;
 APPLICANT: Chomez, Patrick
 TITLE OF INVENTION: Isolated Nucleic Acid Molecules Useful In
 TITLE OF INVENTION: Determining Expression Of A Tumor Antigen Precursor
 NUMBER OF SEQUENCES: 48
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Felfe & Lynch
 STREET: 805 Third Avenue
 CITY: New York City
 STATE: New York
 ZIP: 10022

COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage

COMPUTER: IBM
 OPERATING SYSTEM: PC-DOS

SOFTWARE: Wordperfect
 CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/299,849B
 FILING DATE: 1-SEPTEMBER-1994

CLASSIFICATION: 435

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/037,230

FILING DATE: 26-MARCH-1993
 PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/US92/04354
 FILING DATE: 22-MAY-1992

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/807,043

FILING DATE: 12-DECEMBER-1991
 PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/764,364
 FILING DATE: 23-SEPTEMBER-1991

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/728,838

APPLICATION NUMBER: 9-JULY-1991
 FILING DATE: 23-May-1991

ATTORNEY/AGENT INFORMATION:
 NAME: Hanson, No. 5612201man D.

REGISTRATION NUMBER: 30,946
 REFERENCE/DOCKET NUMBER: LUD 5355

TELEPHONE: (212) 688-9200
 TELEFAX: (212) 838-3884

INFORMATION FOR SEQ ID NO: 7:
 SEQUENCE CHARACTERISTICS:

LENGTH: 2419 base pairs
 TYPE: nucleic acid

STRANDEDNESS: single
 TOPOLOGY: linear

MOLECULE TYPE: genomic DNA
 US-08-299-849B-7

Query Match 0.6%; Score 17; DB 1; Length 2419;
 Best Local Similarity 100.0%; Pred. No. 73;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1652 ggtcctgggacccctgg 1668
 |||||
 DB 739 GGTCTGGGACCCCTGG 755

RESULT 24
US-08-142-368A-7
Sequence 7, Application US/08142368A
Patent No. 5925729
GENERAL INFORMATION:
APPLICANT: Boon-Falleur, Thierry; Van der Bruggen, Thierry;
APPLICANT: Van den Eynde, Beno t; Van Pel, Aline; De Plaen, Etienne;
APPLICANT: Lurquin, Christophe; Chomez, Patrick; Traversari, Catia
TITLE OF INVENTION: Tumor Rejection Antigen Precursors, Tumor
TITLE OF INVENTION: Rejection Antigens and Uses Thereof
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Felfe & Lynch
STREET: 805 Third Avenue
CITY: New York City
STATE: New York
ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
COMPUTER: IBM
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/142,368A
FILING DATE: 02-MAY-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/04354
FILING DATE: 22-MAY-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/807,043
FILING DATE: 12-DECEMBER-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/764,364
FILING DATE: 23-SEPTEMBER-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/728,838
FILING DATE: 9-JULY-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/705,702
FILING DATE: 23-MAY-1991
ATTORNEY/AGENT INFORMATION:
NAME: Hanson, No. 5925729man D.
REGISTRATION NUMBER: 30,946
REFERENCE/DOCKET NUMBER: LUD 5253.4-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 688-9200
TELEFAX: (212) 838-3884
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 2419 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: genomic DNA
US-08-142-368A-7
Query Match 0.6%; Score 17; DB 2; Length 2419;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1652 ggtcctgggaccctgg 1668
|||||
DB 739 GGTCTGGGACCCCTGG 755
RESULT 25
US-08-967-727-7
Sequence 7, Application US/08967727
Patent No. 6025474

GENERAL INFORMATION:
APPLICANT: Gaugler, B atrice; Van den Eynde, Beno t;
APPLICANT: van der Bruggen, Pierre; Boon-Falleur, Thierry
TITLE OF INVENTION: Isolated Nucleic Acid Molecules Coding For
TITLE OF INVENTION: Tumor Rejection Antigen Precursor Wage-3 And Uses Thereof
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Felfe & Lynch
STREET: 805 Third Avenue
CITY: New York City
STATE: New York
ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
COMPUTER: IBM
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/967,727
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/037,230
FILING DATE: 26-MARCH-1993
APPLICATION NUMBER: PCT/US92/04354
FILING DATE: 22-MAY-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/807,043
FILING DATE: 12-DECEMBER-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/764,365
FILING DATE: 23-SEPTEMBER-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/728,838
FILING DATE: 9-JULY-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/705,702
FILING DATE: 23-MAY-1991
ATTORNEY/AGENT INFORMATION:
NAME: Hanson, No. 6025474man D.
REGISTRATION NUMBER: 30,946
REFERENCE/DOCKET NUMBER: LUD 5353
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 688-9200
TELEFAX: (212) 838-3884
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 2419 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: genomic DNA
US-08-967-727-7
Query Match 0.6%; Score 17; DB 3; Length 2419;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1652 ggtcctgggaccctgg 1668
|||||
DB 739 GGTCTGGGACCCCTGG 755
RESULT 26
US-08-465-167A-23-
Sequence 23, Application US/08465167A
Patent No. 5750395
GENERAL INFORMATION:
APPLICANT: Fikes, John D.
APPLICANT: Livingston, Brian D.
APPLICANT: Sette, Alessandro D.
APPLICANT: Sidney, John C.

TITLE OF INVENTION: DNA ENCODING MAGE-1 C-TERMINAL
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES (as amended)
NUMBER OF SEQUENCES: 51
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, 8th Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/465,167A
FILING DATE: 05-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/103,623
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Parmelee, Steven W.
REGISTRATION NUMBER: 31,990
REFERENCE/DOCKET NUMBER: 14137-60-1
TELEPHONE: 206-467-9600
TELEFAX: 415-576-0300
INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 2420 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
NAME/KEY: CDS
LOCATION: 626..1552
US-08-465-167A-23

Query Match 0.6%; Score 17; DB 1; Length 2420;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1652 ggtcctggggcaccctgg 1668
|||||
Q 739 GGTCTGGGCACTTGG 755

RESULT 27
US-08-295-882-1/C
Sequence 1, Application US/08295882
Patent No. 5569833
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: METHOD FOR ENHANCING
TITLE OF INVENTION: PLANT PRECOCITY AND/OR REDUCING THE
TITLE OF INVENTION: STORED NITRATE CONTENT OF A PLANT
NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
ADDRESSEE: Christie, Parker & Hale
STREET: P.O. Box 7068
CITY: Pasadena
STATE: CA
COUNTRY: USA
ZIP: 91109-7068
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORD PERFECT 5.1 release

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/295.882
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/FR 93/00222
FILING DATE: March 5, 1993
APPLICATION NUMBER: 92 02658
FILING DATE: March 5, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Prout, D. Bruce
REGISTRATION NUMBER: 20,958
REFERENCE/DOCKET NUMBER: 27209/DBP
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 3457 base pairs
TYPE: nucleotide with corresponding
TYPE: protein
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
ORIGINAL SOURCE: (1.vi.a) ORGANISM: Nicotiana tabacum
ORIGINAL SOURCE: (1.vi.b) CELL LINE: N. tabacum cv. Xanthi
ORIGINAL SOURCE: XHFD 8
IMMEDIATE SOURCE: leaf
FEATURE:
NAME/KEY: Nitrate reductase
LOCATION: from 1 to 143 bp: Leader
LOCATION: non translated 5 sequence (leader)
LOCATION: from 144 to 2855 bp: coding sequence
LOCATION: for nitrate reductase apoenzyme
LOCATION: from 2856 to 3457 bp: non translated
LOCATION: 3 sequence
US-08-295-882-1
Query Match 0.6%; Score 17; DB 1; Length 3457;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 909 gaaggagagagatttt 925
|||||
Db 94 GAAGGAAGAGAGATT 78
RESULT 28
US-08-343-760A-1
Sequence 1, Application US/08343760A
Patent No. 5679783
GENERAL INFORMATION:
APPLICANT: De Robertis, Edward M
APPLICANT: Sasal, Yoshiki
TITLE OF INVENTION: Tissue Differentiation Affecting
TITLE OF INVENTION: Factor and Composition
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: Majestic, Parsons, Siebert & Hsue
STREET: Four Embarcadero Center, Suite 1450
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/343,760A
FILING DATE: 22-NOV-1994
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Siebert, J. Suzanne

REGISTRATION NUMBER: 28,758
REFERENCE/DOCKET NUMBER: 3100.1
TELEPHONE: (415) 363-5556
TELEFAX: (415) 362-5418
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 3796 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cdna
US-08-343-760A-1

Query Match 0.6%; Score 17; DB 1; Length 3796;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Y 270 ctctacgtcttctccga 286
|||||
Db 1036 CTCACGCTCTCCGA 1052

RESULT 29
US-08-441-430-1
Sequence 1, Application US/08441430
Patent No. 5681942
GENERAL INFORMATION:
APPLICANT: Buchwald, Manuel
APPLICANT: Strathdee, Craig A.
APPLICANT: Wevrick, Rachel
APPLICANT: Mathew, Christopher George Porter
TITLE OF INVENTION: Fanconi Anemia Type C Gene
NUMBER OF SEQUENCES: 73
CORRESPONDENCE ADDRESS:
ADDRESSEE: Richard J. Polley, Esq.
ADDRESSEE: Klarquist, Sparkman, Campbell, Leigh &
ADDRESSEE: Winston, LLP
STREET: 121 S.W. Salmon, Suite 1600
CITY: Portland
STATE: Oregon
COUNTRY: U.S.A.
ZIP: 97204
COMPUTER READABLE FORM:
MEDIUM TYPE: Disk, 3+-inch
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS DOS
SOFTWARE: WordPerfect 5.1/ASCII Text File
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441.430
FILING DATE: May 15, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: U.S. 07/876,285
FILING DATE: April 29, 1992
APPLICATION NUMBER: U.S. 07/918,313
FILING DATE: July 21, 1992
APPLICATION NUMBER: U.S. 08/003,963
FILING DATE: January 15, 1993
ATTORNEY/AGENT INFORMATION:
NAME: Richard J. Polley, Esq.
REGISTRATION NUMBER: 28,107
REFERENCE/DOCKET NUMBER: 3812-42824
TELEPHONE: (503) 226-7391
TELEFAX: (503) 228-9446
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 4488 base pairs
TYPE: Nucleic Acid
STRANDEDNESS: Double stranded
TOPOLOGY: Linear

MOLECULE TYPE: cdna to mRNA
HYPOTHEICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
IMMEDIATE SOURCE:
LIBRARY: Human cdna
POSITION IN GENOME: (of corresponding genomic gene)
CHROMOSOME/SEGMENT: 9q
MAP POSITION: 22.3
UNITS:
US-08-441-430-1
Query Match 0.6%; Score 17; DB 1; Length 4488;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2105 tgaagccaccctctggaag 2121
|||||
Db 4189 TGAAGCCACCCTGGAAG 4205
RESULT 30
US-07-807-043B-8
Sequence 8, Application US/07807043B
Patent No. 5342774
GENERAL INFORMATION:
APPLICANT: Boon, Thierry, Van den Eynde, Beno t
TITLE OF INVENTION: Tumor Rejection Antigen Precursors, Tumor
TITLE OF INVENTION: Rejection Antigens and Uses Thereof
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Felfe & Lynch
STREET: 805 Third Avenue
CITY: New York City
STATE: New York
ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
COMPUTER: IBM
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/807,043B
FILING DATE: 19911212
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/764,364
FILING DATE: 23-SEPTEMBER-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/728,838
FILING DATE: 9-JULY-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/705,702
FILING DATE: 23-May-1991
ATTORNEY/AGENT INFORMATION:
NAME: Hauson, No. 5342774man D.
REGISTRATION NUMBER: 30,946
REFERENCE/DOCKET NUMBER: LUD 253.3
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 688-9200
TELEFAX: (212) 838-3884
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 5674 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: singular
TOPOLOGY: linear
MOLECULE TYPE: genomic DNA
FEATURE:
NAME/KEY: MAGE-1 gene
US-07-807-043B-8

Query Match 0.6%; Score 17; DB 1; Length 5674;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1652 ggtctctgggaccctgg 1668
|||||
DB 3994 GGTCTGGGACCCCTGG 4010

RESULT 31

US-08-190-411A-1
; Sequence 1, Application US/08190411A
; Patent No. 5541104

GENERAL INFORMATION:

APPLICANT: Chen, Yao-Tsung; Stockert, Elisabeth;
APPLICANT: Chen, Yachi; Garin-Chesa, Pilar; Rettig, Wolfgang J.;
APPLICANT: van der Bruggen, Pierre; Boon-Falleur, Thierry;

APPLICANT: Old, Lloyd J.

TITLE OF INVENTION: MONOCLONAL ANTIBODIES WHICH BIND TO

TITLE OF INVENTION: TUMOR REJECTION ANTIGEN PRECURSOR MAGE-1, RECOMBINANT MAGE-1,

TITLE OF INVENTION: AND MAGE-1 DERIVED IMMUNOGENIC PEPTIDES

NUMBER OF SEQUENCES: 4

CORRESPONDENCE ADDRESS:

ADDRESSEE: Felfe & Lynch

STREET: 805 Third Avenue

CITY: New York City

STATE: New York

ZIP: 10022

COMPUTER READABLE FORM: MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage

COMPUTER: IBM

OPERATING SYSTEM: PC-DOS

SOFTWARE: Wordperfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/190,411A

FILING DATE: 01-FEBRUARY-1994

CLASSIFICATION: 436

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 037,230

FILING DATE: 26-MARCH-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/US92/04354

FILING DATE: 22-MAY-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/807,043

FILING DATE: 12-DECEMBER-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/764,364

FILING DATE: 23-SEPTEMBER-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/728,838

FILING DATE: 9-JULY-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/705,702

FILING DATE: 23-MAY-1991

ATTORNEY/AGENT INFORMATION:

NAME: Hanson, No. 5541104man D.

REGISTRATION NUMBER: 30,946

REFERENCE/DOCKET NUMBER: LUD 5354

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 688-9200

TELEFAX: (212) 838-3884

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 5674 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: genomic DNA

FEATURE:

NAME/KEY: MAGE-1 gene

US-08-190-411A-1

Query Match 0.6%; Score 17; DB 1; Length 5674;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1652 ggtctctgggaccctgg 1668
|||||
DB 3994 GGTCTGGGACCCCTGG 4010

RESULT 32

US-08-299-849B-8

; Sequence 8, Application US/08299849B

; Patent No. 5612201

GENERAL INFORMATION:

APPLICANT: De Plaen, Etienne; Boon-Falleur, Thierry;

APPLICANT: Leth, Bernard; Szikora, Jean-Pierre; De Smet, Charles;

APPLICANT: Chomez, Patrick

TITLE OF INVENTION: Isolated Nucleic Acid Molecules Useful In

TITLE OF INVENTION: Determining Expression Of A Tumor Antigen Precursor

NUMBER OF SEQUENCES: 48

CORRESPONDENCE ADDRESS:

ADDRESSEE: Felfe & Lynch

STREET: 805 Third Avenue

CITY: New York City

STATE: New York

ZIP: 10022

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage

COMPUTER: IBM

OPERATING SYSTEM: PC-DOS

SOFTWARE: Wordperfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/299,849B

FILING DATE: 1-SEPTEMBER-1994

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/037,230

FILING DATE: 26-MARCH-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/US92/04354

FILING DATE: 22-MAY-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/807,043

FILING DATE: 12-DECEMBER-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/764,364

FILING DATE: 23-SEPTEMBER-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/728,838

FILING DATE: 9-JULY-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/705,702

FILING DATE: 23-MAY-1991

ATTORNEY/AGENT INFORMATION:

NAME: Hanson, No. 5612201man D.

REGISTRATION NUMBER: 30,946

REFERENCE/DOCKET NUMBER: LUD 5355

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 688-9200

TELEFAX: (212) 838-3884

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:

LENGTH: 5674 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: genomic DNA

FEATURE:

NAME/KEY: MAGE-1 gene

US-08-299-849B-8

Query Match 0.6%; Score 17; DB 1; Length 5674;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1652 ggtcctgggacccctgg 1668
|||||

Db 3994 GGTCTGGGACCCCTGG 4010

RESULT 33
US-08-560-024-1
Sequence 1, Application US/08560024
Patent No. 5843448
GENERAL INFORMATION:
APPLICANT: Chen, Yao-Tseng; Stockert, Elisabeth;
APPLICANT: Chen, Yachi; Garin-Chesa, Pillar; Rettig, Wolfgang J.;
APPLICANT: van der Bruggen, Pierre; Boon-Falleur, Thierry;
APPLICANT: Old, Lloyd J.
TITLE OF INVENTION: MONOCLONAL ANTIBODIES WHICH BIND TO
TITLE OF INVENTION: TUMOR REJECTION ANTIGEN PRECURSOR MAGE-1, RECOMBINANT MAGE-1,
TITLE OF INVENTION: AND MAGE-1 DERIVED IMMUNOGENIC PEPTIDES
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Felfe & Lynch
STREET: 805 Third Avenue
CITY: New York City
STATE: New York
ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
COMPUTER: IBM
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/560,024
FILING DATE:
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/190,411
FILING DATE: 01-FEBRUARY-1994
APPLICATION NUMBER: 037,230
FILING DATE: 26-MARCH-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/04354
FILING DATE: 22-MAY-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/807,043
FILING DATE: 12-DECEMBER-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/764,364
FILING DATE: 23-SEPTEMBER-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/728,838
FILING DATE: 9-JULY-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/705,702
FILING DATE: 23-MAY-1991
ATTORNEY/AGENT INFORMATION:
NAME: Hanson, No. 5843448man D.
REGISTRATION NUMBER: 30,946
REFERENCE/DOCKET NUMBER: LUD 5354
TELEPHONE: (212) 688-9200
TELEFAX: (212) 838-3884
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 5674 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: genomic DNA

FEATURE:
NAME/KEY: MAGE-1 gene
US-08-560-024-1

Query Match 0.6%; Score 17; DB 2; Length 5674;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1652 ggtcctgggacccctgg 1668
|||||

Db 3994 GGTCTGGGACCCCTGG 4010

RESULT 34
US-08-142-368A-8
Sequence 8, Application US/08142368A
Patent No. 5925729
GENERAL INFORMATION:
APPLICANT: Boon-Falleur, Thierry; Van der Bruggen, Thierry;
APPLICANT: Van den Eynde, Beno t; Van Pel, Aline; De Plaen, Etienne;
APPLICANT: Lurquin, Christophe; Chomez, Patrick; Traversari, Catia
TITLE OF INVENTION: Tumor Rejection Antigen Precursors, Tumor
TITLE OF INVENTION: Rejection Antigens and Uses Thereof
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Felfe & Lynch
STREET: 805 Third Avenue
CITY: New York City
STATE: New York
ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
COMPUTER: IBM
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/142,368A
FILING DATE: 02-MAY-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/04354
FILING DATE: 22-MAY-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/807,043
FILING DATE: 12-DECEMBER-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/764,364
FILING DATE: 23-SEPTEMBER-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/728,838
FILING DATE: 9-JULY-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/705,702
FILING DATE: 23-MAY-1991
ATTORNEY/AGENT INFORMATION:
NAME: Hanson, No. 5925729man D.
REGISTRATION NUMBER: 30,946
REFERENCE/DOCKET NUMBER: LUD 5253.4-US
TELEPHONE: (212) 688-9200
TELEFAX: (212) 838-3884
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 5674 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: genomic DNA
FEATURE:
NAME/KEY: MAGE-1 gene
US-08-142-368A-8

Query Match 0.6%; Score 17; DB 2; Length 5674;
 Best Local Similarity 100.0%; Pred. No. 73;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1652 ggtcctgggacccctgg 1668
 |||||
 DB 3994 GGTCTGGGACCCCTGG 4010

RESULT 35
 US-08-967-727-8
 ; Sequence 8, Application US/08967727
 ; Patent No. 6025474
 ; GENERAL INFORMATION:
 ; APPLICANT: Gaugler, B atrice; Van den Eynde, Beno t;
 ; APPLICANT: van der Bruggen, Pierre; Boon-Falleur, Thierry
 ; TITLE OF INVENTION: Isolated Nucleic Acid Molecules Coding For
 ; TITLE OF INVENTION: Tumor Rejection Antigen Precursor Mage-3 And Uses Thereof
 ; NUMBER OF SEQUENCES: 30
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Felife & Lynch
 ; STREET: 805 Third Avenue
 ; CITY: New York City
 ; STATE: New York
 ; ZIP: 10022
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
 ; COMPUTER: IBM
 ; OPERATING SYSTEM: PC-DOS
 ; SOFTWARE: Wordperfect
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/967,727
 ; FILING DATE:
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/037,230
 ; FILING DATE: 26-MARCH-1993
 ; APPLICATION NUMBER: PCT/US92/04354
 ; FILING DATE: 22-MAY-1992
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 07/807,043
 ; FILING DATE: 12-DECEMBER-1991
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 07/764,365
 ; FILING DATE: 23-SEPTEMBER-1991
 ; APPLICATION NUMBER: 07/728,838
 ; FILING DATE: 9-JULY-1991
 ; PRIOR APPLICATION DATA: 07/705,702
 ; FILING DATE: 23-MAY-1991
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Hanson, No. 6025474man D.
 ; REGISTRATION NUMBER: 30,946
 ; REFERENCE/DOCKET NUMBER: LUD 5353
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (212) 688-9200
 ; TELEFAX: (212) 838-3884
 ; INFORMATION FOR SEQ ID NO: 8:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 5674 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: genomic DNA
 ; FEATURE:
 ; NAME/KEY: MAGE-1 gene
 ; US-08-967-727-8

Query Match 0.6%; Score 17; DB 3; Length 5674;
 Best Local Similarity 100.0%; Pred. No. 73;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1032 aggtaccacgaaggaagc 1048
 |||||
 DB 5916 AGGTACCAAGGAAGGC 5932

Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1652 ggtcctgggacccctgg 1668
 |||||
 DB 3994 GGTCTGGGACCCCTGG 4010

RESULT 36
 US-08-321-478-6
 ; Sequence 6, Application US/08321478
 ; Patent No. 5527677
 ; GENERAL INFORMATION:
 ; APPLICANT: DESUCHI, Takeo
 ; APPLICANT: KINOSHITA, Moritoshi
 ; APPLICANT: KATSURAGI, Kiyonori
 ; APPLICANT: SHIN, Sadahito
 ; TITLE OF INVENTION: HUMAN ARYLAMINE N-ACETYLTRANSFERASE
 ; TITLE OF INVENTION: GENES
 ; NUMBER OF SEQUENCES: 13
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Sughrue, Mion, Zinn, Macpeak & Seas
 ; STREET: 2100 Pennsylvania Avenue, N.W.
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: United States
 ; ZIP: 20037-3202
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/321,478
 ; FILING DATE: 11-OCT-1994
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/038,667
 ; FILING DATE: 23-MAR-1993
 ; APPLICATION NUMBER: JP 64669/1992
 ; FILING DATE: 23-MAR-1992
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (202) 293-7060
 ; TELEFAX: (202) 293-7860
 ; TELEX: 6491103
 ; INFORMATION FOR SEQ ID NO: 6:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 6464 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: DNA (genomic)
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: 723..1595
 ; FEATURE:
 ; NAME/KEY: exon
 ; LOCATION: 717..1936
 ; FEATURE:
 ; NAME/KEY: polyA_signal
 ; LOCATION: 1794..1799
 ; FEATURE:
 ; NAME/KEY: polyA_signal
 ; LOCATION: 1800..1805
 ; US-08-321-478-6

Query Match 0.6%; Score 17; DB 1; Length 6464;
 Best Local Similarity 100.0%; Pred. No. 74;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1032 aggtaccacgaaggaagc 1048
 |||||
 DB 5916 AGGTACCAAGGAAGGC 5932


```

RESULT 37
US-07-853-913-1
Sequence 1, Application US/07853913
Patent No. 5338839
GENERAL INFORMATION:
APPLICANT: McKay, Ronald D.G.
APPLICANT: Lendahl, Urban
TITLE OF INVENTION: Nestin Expression As An Indicator of
TITLE OF INVENTION: Neuroepithelial Tumors
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
STREET: Two Militia Drive
CITY: Lexington
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02173
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/853,913
FILING DATE: 19920319
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/660,412
FILING DATE: 22-FEB-1991
PRIOR APPLICATION DATA: US 07/603,803
FILING DATE: 25-OCT-1990
APPLICATION NUMBER: US 07/201,762
FILING DATE: 02-JUN-1988
APPLICATION NUMBER: US 07/180,548
ATTORNEY/AGENT INFORMATION:
NAME: Granahan, Patricia
REGISTRATION NUMBER: 32,227
REFERENCE/DOCKET NUMBER: MIT-4641AAAA
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-861-6240
TELEFAX: 617-861-9540
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 11236 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-07-853-913-1

Query Match 0.6%; Score 17; DB 1; Length 11236;
Best Local Similarity 100.0%; Pred. No. 74;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

-Y 1877 ccttcaggaaaggcgtg 1893
|||||
2b 3466 CCTCAGGAGGGGCTG 3482

RESULT 38
US-08-781-891-207
Sequence 207, Application US/08781891
Patent No. 6090620
GENERAL INFORMATION:
APPLICANT: Fu, Ying-Hui
APPLICANT: Yu, Chang-En
APPLICANT: Oshima, Junko

```

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APPLICANT: Mulligan, John T.
APPLICANT: Schellenberg, Gerald D.
TITLE OF INVENTION: GENE AND GENE PRODUCTS RELATED TO
TITLE OF INVENTION: WERNER'S SYNDROME
NUMBER OF SEQUENCES: 209
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/781,891
FILING DATE: 27-DEC-1996
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: No. 6090620tenburg Ph.D., Carol
REGISTRATION NUMBER: 39,317
REFERENCE/DOCKET NUMBER: 240052.419
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 207:
SEQUENCE CHARACTERISTICS:
LENGTH: 29604 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-781-891-207

Query Match 0.6%; Score 17; DB 3; Length 29604;
Best Local Similarity 100.0%; Pred. No. 74;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 525 aaaggaataagaactggc 541
|||||
Db 14826 AAAGGAATAGACTGGC 14842

RESULT 39
US-09-335-409-1/c
Sequence 1, Application US/09335409
Patent No. 6121029
GENERAL INFORMATION:
APPLICANT: Schupp, Thomas
APPLICANT: Ligon, James
APPLICANT: Molnar, Istvan
APPLICANT: Zirkle, Ross
APPLICANT: Cyr, Devon
APPLICANT: Goslach, Joern
TITLE OF INVENTION: GENES FOR THE BIOSYNTHESIS OF EPOTHILONES
FILE REFERENCE: 4-30582A
CURRENT APPLICATION NUMBER: US/09/335,409
CURRENT FILING DATE: 1999-06-17
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1
LENGTH: 68750
TYPE: DNA
ORGANISM: Sorangium cellulosum
US-09-335-409-1

Query Match 0.6%; Score 17; DB 3; Length 68750;
Best Local Similarity 100.0%; Pred. No. 75;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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7 1457 cggccagcccccagcag 1473
: |||||||||||||||
: 20332 CGGCCAGCCCAAGCAG 20316

RESULT 40
: Sequence 12, Application US/07753110B
: Patent No. 5436141
: GENERAL INFORMATION:
: APPLICANT: Miyata, Shohei
: APPLICANT: Ohshima, Atsushi
: APPLICANT: Inouye, Sumiko
: APPLICANT: Inouye, Masayori
: TITLE OF INVENTION: METHOD FOR SYNTHESIZING STABLE
: TITLE OF INVENTION: SINGLE-STRANDED CDNA IN EUKARYOTES BY MEANS OF A BACTERIAL
: NUMBER OF SEQUENCES: 20
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Weiser & Associates
: STREET: 230 South Fifteenth Street, Suite 500
: CITY: Philadelphia
: STATE: Pennsylvania
: COUNTRY: U.S.A.
: ZIP: 19102
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/07753110B
: FILING DATE: 30-AUG-1991
: CLASSIFICATION: 435
: ATTORNEY/AGENT INFORMATION:
: NAME: Weiser, Gerard J.
: REGISTRATION NUMBER: 19,763
: REFERENCE/DOCKET NUMBER: 377.5584P
: TELEPHONE: 215-875-8383
: TELEFAX: 215-875-8394
: INFORMATION FOR SEQ ID NO: 12:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 76 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: FEATURE:
: NAME/KEY: misc_feature
: LOCATION: 19
: OTHER INFORMATION: /note= "The 2' position of this
: OTHER INFORMATION: nucleotide is linked to the 5' position of
: OTHER INFORMATION: nucleotide number 1 of SEQ ID NO: 11 of this
: OTHER INFORMATION: application."
: FEATURE:
: NAME/KEY: misc_binding
: LOCATION: 69..76
: OTHER INFORMATION: /note= "This region can hydrogen
: OTHER INFORMATION: bond to nucleotides 156-163 of SEQ ID NO: 11 of
: OTHER INFORMATION: this application."
: 5-07-753-110B-12

Query Match 0.5%; Score 16; DB 1; Length 76;
Best Local Similarity 87.5%; Pred. No. 2.2e+02;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

2165 gtcccaagccatcagc 2180
: |||||||||||||||
: 5 GUCCCAAGCCAUGCAGC 20
```

```
RESULT 41
: US-08-503-730-16
: Sequence 16, Application US/08503730
: Patent No. 5780269
: GENERAL INFORMATION:
: APPLICANT: Inouye, Sumiko
: APPLICANT: Inouye, Masayori
: TITLE OF INVENTION: NEW HYBRID MOLECULES
: NUMBER OF SEQUENCES: 45
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Weiser & Associates
: STREET: 230 South Fifteenth Street Suite 500
: CITY: Philadelphia
: STATE: PA
: COUNTRY: USA
: ZIP: 19102
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/503,730
: FILING DATE: 18-JUL-1995
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/817,430
: FILING DATE: 06-JAN-1992
: ATTORNEY/AGENT INFORMATION:
: NAME: Weiser, Gerard J.
: REGISTRATION NUMBER: 19,763
: REFERENCE/DOCKET NUMBER: 377(913).6277P
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 215-875-8383
: TELEFAX: 215-875-8394
: INFORMATION FOR SEQ ID NO: 16:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 76 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: both
: US-08-503-730-16

Query Match 0.5%; Score 16; DB 1; Length 76;
Best Local Similarity 87.5%; Pred. No. 2.2e+02;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2165 gtcccaagccatcagc 2180
: |||||||||||||||
: Db 5 GUCCCAAGCCAUGCAGC 20

RESULT 42
: US-08-507-634-13
: Sequence 13, Application US/08507634
: Patent No. 5849563
: GENERAL INFORMATION:
: APPLICANT: Miyata, Shohei
: APPLICANT: Ohshima, Atsushi
: APPLICANT: Inouye, Sumiko
: APPLICANT: Inouye, Masayori
: TITLE OF INVENTION: METHOD FOR SYNTHESIZING STABLE
: TITLE OF INVENTION: SINGLE-STRANDED CDNA IN EUKARYOTES BY MEANS OF A BACTERIAL
: NUMBER OF SEQUENCES: 24
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Weiser & Associates
: STREET: 230 South Fifteenth Street, Suite 500
: CITY: Philadelphia
: STATE: PA
: COUNTRY: USA
: ZIP: 19102
```

```

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/507,634
FILING DATE: 25-JUL-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Weiser, Gerard J.
REGISTRATION NUMBER: 19,763
REFERENCE/DOCKET NUMBER: 377.6282P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-875-8383
TELEFAX: 215-875-8394
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 76 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
FEATURE:
NAME/KEY: misc_feature
LOCATION: 19
OTHER INFORMATION: /note= "The 2' position of this
OTHER INFORMATION: nucleotide is linked to the 5' position of
OTHER INFORMATION: nucleotide number 1 of SEQ ID NO: 12 of this
APPLICATION."
FEATURE:
NAME/KEY: misc_binding
LOCATION: 69..76
OTHER INFORMATION: /note= "This region can hydrogen
OTHER INFORMATION: bond to nucleotides 156-163 of SEQ ID NO: 12 of
OTHER INFORMATION: this application."
US-08-507-634-13

Query Match 0.5%; Score 16; DB 2; Length 76;
Best Local Similarity 87.5%; Pred. No. 2.2e+02;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

2Y 2165 gtcccaagccatcagc 2180
   |||||||
5 GUCCCAAGCCCAUGCAGC 20

RESULT 43
US-08-717-294-93/c
Sequence 93, Application US/08717294
Patent No. 6114148
GENERAL INFORMATION:
APPLICANT: SEED, BRIAN
APPLICANT: HAAS, JURGEN
TITLE OF INVENTION: HIGH LEVEL EXPRESSION OF
TITLE OF INVENTION: PROTEINS
NUMBER OF SEQUENCES: 110
CORRESPONDENCE ADDRESS:
ADDRESSEE: Clark & Elbing LLP
STREET: 176 Federal Street
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02110
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/717,294
FILING DATE: 20-SEP-1996
CLASSIFICATION: 435

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ORIGINAL SOURCE: INTRON 6 OF RAD50 GENOMIC SEQUENCE
INDIVIDUAL ISOLATE: 05-08-687-080-70

Query Match 0.5%; Score 16; DB 2; Length 233;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
y 966 ttgtggtgtagaat 981
|||||
c 2 TTTGTGGTGTAGAT 17

RESULT 45
US-08-630-822A-97/c
Sequence 97, Application US/08630822A
Patent No. 5840695
GENERAL INFORMATION:
APPLICANT: FRANK, GLENN R.
APPLICANT: HUNTER, SHIRLEY WU
APPLICANT: WALLENFELS, LYNDA
TITLE OF INVENTION: NOVEL ECTOPARASITE SALIVA PROTEINS
TITLE OF INVENTION: AND APPARATUS TO COLLECT SUCH PROTEINS
NUMBER OF SEQUENCES: 107
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sheridan Ross P.C.
STREET: 1700 Lincoln Street, Suite 3500
CITY: Denver
STATE: Colorado
COUNTRY: U.S.A.
ZIP: 80203

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/630,822A
FILING DATE: 11-APR-1996
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
NAME: CONNELL, GARY J.
REGISTRATION NUMBER: 32,020
REFERENCE/DOCKET NUMBER: 2618-17-C3
TELEPHONE: (303) 863-9700
TELEFAX: (303) 863-0223
INFORMATION FOR SEQ ID NO: 97:
SEQUENCE CHARACTERISTICS:
LENGTH: 252 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA

US-08-630-822A-97

Query Match 0.5%; Score 16; DB 2; Length 252;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

y 1478 agaagtcagtagccca 1493
|||||
c 195 AAGAGTCAGTACCCA 180

RESULT 46
US-09-005-069-97/c
Sequence 97, Application US/09005069
Patent No. 5932470
GENERAL INFORMATION:
APPLICANT: FRANK, GLENN R.

APPLICANT: HUNTER, SHIRLEY WU
APPLICANT: WALLENFELS, LYNDA
TITLE OF INVENTION: NOVEL ECTOPARASITE SALIVA PROTEINS
TITLE OF INVENTION: AND APPARATUS TO COLLECT SUCH PROTEINS
NUMBER OF SEQUENCES: 107
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sheridan Ross P.C.
STREET: 1700 Lincoln Street, Suite 3500
CITY: Denver
STATE: Colorado
COUNTRY: U.S.A.
ZIP: 80203
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/005,069
FILING DATE:

CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/630,822
FILING DATE: 11-APR-1996
ATTORNEY/AGENT INFORMATION:
NAME: CONNELL, GARY J.
REGISTRATION NUMBER: 32,020
REFERENCE/DOCKET NUMBER: 2618-17-C3
TELEPHONE: (303) 863-9700
TELEFAX: (303) 863-0223
INFORMATION FOR SEQ ID NO: 97:
SEQUENCE CHARACTERISTICS:
LENGTH: 252 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-09-005-069-97

Query Match 0.5%; Score 16; DB 2; Length 252;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1478 agaagtcagtagccca 1493
|||||
Db 195 AAGAGTCAGTACCCA 180

RESULT 47
US-08-906-769-104/c
Sequence 104, Application US/08906769
Patent No. 6077687
GENERAL INFORMATION:
APPLICANT: Grieve, Robert B.
APPLICANT: Rushlow, Keith E.
APPLICANT: Wu Hunter, Shirley
APPLICANT: Frank, Glenn R.
APPLICANT: Stiegler, Gary
APPLICANT: Gaines, Patrick J.
APPLICANT: Silver, Gary
TITLE OF INVENTION: FLEA PROTEASE PROTEINS, NUCLEIC ACID
TITLE OF INVENTION: MOLECULES AND USES THEREOF
NUMBER OF SEQUENCES: 190
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sheridan Ross & McIntosh
STREET: 1700 Lincoln Street, Suite 3500
CITY: Denver
STATE: Colorado
COUNTRY: USA
ZIP: 80203

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/906.769
FILING DATE:

CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/639,075
FILING DATE: 24-APR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Connell, Gary J.

REGISTRATION NUMBER: 32,020
REFERENCE/DOCKET NUMBER: 2618-25-C2
TELEPHONE: (303) 863-9700
TELEFAX: (303) 863-0223
INFORMATION FOR SEQ ID NO: 104:

SEQUENCE CHARACTERISTICS:
LENGTH: 252 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA

FEATURE:
NAME/KEY: CDS
LOCATION: 1..251
OTHER INFORMATION: /note= "At pos. bp 4, change A to
OTHER INFORMATION: R. At pos. aa 2, substitute xaa."

US-08-906-769-104

Query Match 0.5%; Score 16; DB 3; Length 252;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1478 aagaagtcagttacc 1493
Db 199 AGAAGTCAGTACCCA 184

RESULT 48

Sequence 104, Application US/08906616
Patent No. 6121035

GENERAL INFORMATION:
APPLICANT: Grieve, Robert B.
APPLICANT: Rushlow, Keith E.
APPLICANT: Wu Hunter, Shirley
APPLICANT: Frank, Glenn R.
APPLICANT: Stiegler, Gary
APPLICANT: Gaines, Patrick J.
APPLICANT: Silver, Gary

TITLE OF INVENTION: FLEA AMINOPEPTIDASE PROTEINS AND USES THEREOF
NUMBER OF SEQUENCES: 190
CORRESPONDENCE ADDRESS:

ADDRESSEE: Sheridan Ross P.C.
STREET: 1700 Lincoln Street, Suite 3500
CITY: Denver
STATE: Colorado
COUNTRY: USA
ZIP: 80203

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/906,616
FILING DATE: 05-AUG-1997
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:

NAME: Connell, Gary J.
REGISTRATION NUMBER: 32,020
REFERENCE/DOCKET NUMBER: 2618-25-C2-3
TELEPHONE: (303) 863-9700
TELEFAX: (303) 863-0223

INFORMATION FOR SEQ ID NO: 104:
SEQUENCE CHARACTERISTICS:
LENGTH: 252 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:

NAME/KEY: CDS
LOCATION: 1..251
OTHER INFORMATION: /note= "At pos. bp 4, change A to
OTHER INFORMATION: R. At pos. aa 2, substitute xaa."

US-08-906-616-104

Query Match 0.5%; Score 16; DB 3; Length 252;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1478 aagaagtcagttacc 1493
Db 199 AGAAGTCAGTACCCA 184

RESULT 49

US-08-817-795-104/c
Sequence 104, Application US/08817795
Patent No. 6139840

GENERAL INFORMATION:
APPLICANT: Grieve, Robert B.
APPLICANT: Rushlow, Keith E.
APPLICANT: Hunter, Shirley Wu
APPLICANT: Frank, Glenn R.
APPLICANT: Heath, Andrew W.
APPLICANT: Yamaka, Miles Yamanaka
APPLICANT: Arfsten, Ann
APPLICANT: Dale, Beverly
APPLICANT: Stiegler, Gary
TITLE OF INVENTION: USE OF PROTEASE INHIBITORS AND
TITLE OF INVENTION: PROTEASE VACCINES TO PROTECT ANIMALS FROM FLEA
TITLE OF INVENTION: INFESTATION, AND FLEA PROTEASE PROTEINS, NUCLEIC ACID
TITLE OF INVENTION: MOLECULES, AND USES THEREOF
NUMBER OF SEQUENCES: 119
CORRESPONDENCE ADDRESS:

ADDRESSEE: Sheridan Ross & McIntosh
STREET: 1700 Lincoln Street, Suite 3500
CITY: Denver
STATE: Colorado
COUNTRY: USA
ZIP: 80203

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/817,795
FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/14442
FILING DATE:

ATTORNEY/AGENT INFORMATION:
NAME: Gary J. Connell
REGISTRATION NUMBER: 32,020
REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION:

Query Match 0.5%; Score 16; DB 4; Length 252;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1478 aagaagtcagtagccca 1493
|||||
199 AAGAAGTCAGTAGCCCA 184

RESULT 52
US-08-611-757-98/c
; Sequence 98, Application US/08611757
; Patent No. 5859230
; GENERAL INFORMATION:
; APPLICANT: Kim, Jungsuh P.
; APPLICANT: Reyes, Gregory R.
; APPLICANT: Wages, John
; APPLICANT: Zhang-Keck, Zhen-Yang
; APPLICANT: Young, Lavonne
; TITLE OF INVENTION: No. 5859230-A/No. 5859230-B/No. 5859230-C/No. 5859230-D/No. 58
; TITLE OF INVENTION: Agents and Molecular Cloning Thereof
; NUMBER OF SEQUENCES: 106
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dehlinger & Associates
; STREET: 350 Cambridge Avenue, Suite 250
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/611.757
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/246,985
; FILING DATE: 20-MAY-1994
; APPLICATION NUMBER: US 025,396
; FILING DATE: 24-FEB-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/922,493
; FILING DATE: 30-JUL-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Fabian, Gary R.
; REGISTRATION NUMBER: 33,875
; REFERENCE/DOCKET NUMBER: 4600-0201
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 324-0880
; TELEFAX: (415) 324-0960
; INFORMATION FOR SEQ ID NO: 98:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 294 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: linear
; MOLECULE TYPE: DNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: SCH Clone SU7-8
; 3-08-611-757-98

Query Match 0.5%; Score 16; DB 2; Length 294;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

133 gccgcgagcgccgcg 148
|||||

Db 21 GCCGCGAGCGCGCG 6

RESULT 53
PCT-US95-05980-98/c
; Sequence 98, Application PC/TUS9505980
; GENERAL INFORMATION:
; APPLICANT:
; APPLICANT:
; TITLE OF INVENTION: Non-A/Non-B/Non-C/Non-D/Non-E Hepatitis
; TITLE OF INVENTION: Agents and Molecular Cloning Thereof
; NUMBER OF SEQUENCES: 106
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dehlinger & Associates
; STREET: 350 Cambridge Avenue, Suite 250
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/05980
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/246,986
; FILING DATE: 20-MAY-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Fabian, Gary R.
; REGISTRATION NUMBER: 33,875
; REFERENCE/DOCKET NUMBER: 4600-0201.49
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 324-0880
; TELEFAX: (415) 324-0960
; INFORMATION FOR SEQ ID NO: 98:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 294 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: SCH Clone SU7-8
; PCT-US95-05980-98

Query Match 0.5%; Score 16; DB 4; Length 294;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

133 gccgcgagcgccgcg 148
|||||

Db 21 GCCGCGAGCGCGCG 6

RESULT 54
US-08-937-931-9
; Sequence 9, Application US/08937931
; Patent No. 5935792
; GENERAL INFORMATION:
; APPLICANT: Rubin, Gerald M.
; APPLICANT: Pan, Duojia
; APPLICANT: Rooke, Jenny
; APPLICANT: Yavari, Reza
; APPLICANT: Xu, Tian
; TITLE OF INVENTION: KUZ: A No. 5935792el Family of Metalloproteases
; NUMBER OF SEQUENCES: 10

Best Local Similarity 100.0%; Pred. No. 2.2e+02; Indels 0; Gaps 0;
Matches 16; Conservative 0; Mismatches 0;

QY 1881 cagggaagggtcaga 1896
|||||
DB 184 CAGGAAGGCTGAGA 199

RESULT 57

PCT-US95-14792-7
Sequence 7, Application PC/TUS9514792
GENERAL INFORMATION:
APPLICANT: James Eberwine, Marc Dichter, Kevin Miyashiro
TITLE OF INVENTION: USE OF NEURITE LOCALIZED RNAs FOR
MEDICAL DIAGNOSIS AND THERAPEUTICS
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: Jane Massey Licata, Esq.
STREET: 210 Lake Drive East, Suite 201
CITY: Cherry Hill
STATE: NJ USA
COUNTRY: USA
ZIP: 08002
COMPUTER READABLE FORM:
MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE
COMPUTER: IBM 486
OPERATING SYSTEM: WINDOWS FOR WORKGROUPS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/14792
FILING DATE: Herewith
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:

ATTORNEY/AGENT INFORMATION:
NAME: Jane Massey Licata
REGISTRATION NUMBER: 32,257
REFERENCE/DOCKET NUMBER: PENN-0028
TELEPHONE: (609) 779-2400
TELEFAX: (609) 779-8488
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 489
TYPE: NUCLEIC ACID
STRANDEDNESS: SINGLE
TOPOLOGY: LINEAR
ANTI-SENSE: NO
PCT-US95-14792-7

Query Match 0.5%; Score 16; DB 4; Length 489;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 1881 cagggaagggtcaga 1896
|||||
DB 184 CAGGAAGGCTGAGA 199

RESULT 58

PCT-US95-507-016-8
Sequence 8, Application US/08507016
Patent No. 5756460
GENERAL INFORMATION:
APPLICANT: EVANS, HELEN F.
APPLICANT: SHINE, JOHN
TITLE OF INVENTION: HUMAN GALANIN, CDNA CLONES ENCODING
HUMAN GALANIN AND A METHOD OF PRODUCING HUMAN GALANIN
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: ROTHWELL, FIGG, ERNST & KURZ

STREET: 555 THIRTEENTH STREET, N.W.
CITY: WASHINGTON
STATE: D. C.
COUNTRY: USA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/507.016
FILING DATE: 25-JULY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/108,733
FILING DATE: 03-SEP-1993
APPLICATION NUMBER: PCT/AU92/00097
FILING DATE: 06-MAR-1992
APPLICATION NUMBER: AU PK4953
FILING DATE: 06-MAR-1991

ATTORNEY/AGENT INFORMATION:
NAME: ERNST, BARBARA G.
REGISTRATION NUMBER: 30,377
REFERENCE/DOCKET NUMBER: 1871-117A
TELEPHONE: (202)783-6040
TELEFAX: (202)783-6031
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 575 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: linear
MOLECULE TYPE: DNA
HYPOTHETICAL: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 14...385
US-08-507-016-8

Query Match 0.5%; Score 16; DB 1; Length 575;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2400 aagcgggagctgcgc 2415
|||||
DB 200 AAGCGGAGCTGCGC 215

RESULT 59

PCT-US91-06418-4/c
Sequence 4, Application PC/TUS9106418
GENERAL INFORMATION:
APPLICANT: Oklahoma Medical Research, Foundation, et al
TITLE OF INVENTION: Antigens Associated with Polymyositis
and with Dermatomyositis
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: Kilpatrick & Cody
STREET: 100 Peachtree Street
CITY: Atlanta
STATE: Georgia
COUNTRY: US
ZIP: 30303
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US91/06418

FILING DATE: 19910905
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/579023
FILING DATE: 09-JUL-1990
ATTORNEY/AGENT INFORMATION:
NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: OMRFL20
TELECOMMUNICATION INFORMATION:
TELEPHONE: 404-572-6508
TELEFAX: 404-572-6555
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 578 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
ORIGINAL SOURCE:
ORGANISM: Homo sapien
STRAIN: JH2
TISSUE TYPE: Sera
CT-US91-06418-4

Query Match 0.5%; Score 16; DB 4; Length 578;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 955 ctggtgctgtttgt 970
|||||

22 CTGCTGCTGCTTTGT 7

RESULT 60

US-08-338-579A-94/c
Sequence 94, Application US/08338579A
Patent No. 6068975

GENERAL INFORMATION:

APPLICANT: Gilliam, T. Conrad
APPLICANT: Tanzi, Rudolph E.
TITLE OF INVENTION: ISOLATION AND USES OF A WILSON'S
TITLE OF INVENTION: DISEASE GENE
NUMBER OF SEQUENCES: 107
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooper & Dunham
STREET: 1185 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10036

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/338,579A
FILING DATE: June 17, 1996

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: White, John P.

REGISTRATION NUMBER: 28,678

REFERENCE/DOCKET NUMBER: 0575/44011-A-PCT-US

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 278-0400

TELEFAX: (212) 391-0525

TELEX:

INFORMATION FOR SEQ ID NO: 94:

SEQUENCE CHARACTERISTICS:
LENGTH: 609 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: 163..609
US-08-338-579A-94

Query Match 0.5%; Score 16; DB 3; Length 609;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2740 gggccaggaggtgctg 2755

|||||

564 GGGCCAGGAGGCTGCC 549

RESULT 61

US-08-911-319A-2
Sequence 2, Application US/08911319A
Patent No. 5968798

GENERAL INFORMATION:

APPLICANT: Hillman, Jennifer L.
APPLICANT: Corley, Neil C.
APPLICANT: Shah, Purvi
TITLE OF INVENTION: HUMAN GLUTAREDOXIN BETA
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Dr.
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/911,319A
FILING DATE: August 14, 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Muenzen, Colette C.
REGISTRATION NUMBER: 39,784
REFERENCE/DOCKET NUMBER: PF-0363 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-855-0555
TELEFAX: 650-845-4166

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 654 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: THP1NOT03
CLONE: 2447829
US-08-911-319A-2

Query Match 0.5%; Score 16; DB 2; Length 654;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2402 gcggggagctgcggcag 2417

```
101 GCGGAGCTGCGGCAG 116
|||||
RESULT 62
Sequence 2, Application US/09352619
Patent No. 6084070
GENERAL INFORMATION:
APPLICANT: Hillman, Jennifer L.
APPLICANT: Corley, Neil C.
APPLICANT: Shah, Purvi
TITLE OF INVENTION: HUMAN GLUTAREDOXIN BETA
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Dr.
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/352,619
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/911,319
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Muenzen, Colette C.
REGISTRATION NUMBER: 39,784
REFERENCE/DOCKET NUMBER: PF-0363 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-855-0555
TELEFAX: 650-845-4166
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 654 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: THPINOT03
CLONE: 2447829
S-09-352-619-2

Query Match 0.5%; Score 16; DB 3; Length 654;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2402 gcggagctgcggcag 2417
|||||
DB 101 GCGGAGCTGCGGCAG 116

RESULT 63
S-07-789-738-3
Sequence 3, Application US/07789738
Patent No. 5824857
GENERAL INFORMATION:
APPLICANT: Beachy, Roger N.
APPLICANT: Bhattacharyya, Maitrayee
TITLE OF INVENTION: Plant Promoter
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dennis R. Hoerner, Jr., Monsanto Co. BB4F
STREET: 700 Chesterfield Parkway No. 5824857th
CITY: St. Louis

Query Match 0.5%; Score 16; DB 1; Length 714;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1842 gtctgtcaccacatca 1857
|||||
DB 484 GTCCTGCACCACATCA 499

RESULT 64
US-07-789-738-5
Sequence 5, Application US/07789738
Patent No. 5824857
GENERAL INFORMATION:
APPLICANT: Beachy, Roger N.
APPLICANT: Bhattacharyya, Maitrayee
TITLE OF INVENTION: Plant Promoter
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dennis R. Hoerner, Jr., Monsanto Co. BB4F
STREET: 700 Chesterfield Parkway No. 5824857th
CITY: St. Louis
STATE: Missouri
COUNTRY: USA
ZIP: 63198
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/789,738
FILING DATE: 19920330
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Hoerner Jr., Dennis R.
REGISTRATION NUMBER: 30,914
REFERENCE/DOCKET NUMBER: 38-21(10540)A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (314)537-6099
TELEFAX: (314)537-6047
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 773 base pairs
```

TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
S-07-789-738-5

Query Match 0.5%; Score 16; DB 1; Length 773;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1842 gtctgcaccacatca 1857
484 gtctgcaccacatca 499

RESULT 65

US-08-651-136C-15
Sequence 15, Application US/08651136C
Patent No. 6001639

GENERAL INFORMATION:

APPLICANT: Schuelein, Martin
APPLICANT: Andersen, Lene N.
APPLICANT: Lassen, Soren F.
APPLICANT: Kauppinen, Markus S.
APPLICANT: Lange, Lene
APPLICANT: Nielsen, Ruby I.
APPLICANT: Ihara, Michiko
TITLE OF INVENTION: Takagi, Shinobu
TITLE OF INVENTION: No. 6001639el Endoglucanases
NUMBER OF SEQUENCES: 109
CORRESPONDENCE ADDRESS:

ADDRESSEE: No. 6001639o No. 6001639disk of No. 6001639th America, Inc.
STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401

COMPUTER READABLE FORM:

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/651,136C
FILING DATE: 21-MAY-1996

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 4366.200-US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 212-867-0123

TELEFAX: 212-878-9655

INFORMATION FOR SEQ ID NO: 15:

SEQUENCE CHARACTERISTICS:

LENGTH: 808 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 37..714

S-08-651-136C-15

Query Match 0.5%; Score 16; DB 3; Length 808;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1409 tcccaacttcacgacg 1424
|||||

Db 577 TCCCAACTTCACGACG 592

RESULT 66

US-08-906-769-128/c
Sequence 128, Application US/08906769
Patent No. 6077687

GENERAL INFORMATION:

APPLICANT: Grieve, Robert B.
APPLICANT: Rushlow, Keith E.
APPLICANT: Wu Hunter, Shirley
APPLICANT: Frank, Glenn R.
APPLICANT: Stiegler, Gary
APPLICANT: Gaines, Patrick J.
APPLICANT: Silver, Gary
TITLE OF INVENTION: FLEA PROTEASE PROTEINS, NUCLEIC ACID
TITLE OF INVENTION: MOLECULES AND USES THEREOF
NUMBER OF SEQUENCES: 190
CORRESPONDENCE ADDRESS:

ADDRESSEE: Sheridan Ross & McIntosh
STREET: 1700 Lincoln Street, Suite 3500
CITY: Denver
STATE: Colorado
COUNTRY: USA
ZIP: 80203

COMPUTER READABLE FORM:

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/906,769
FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/639,075
FILING DATE: 24-APR-1996
ATTORNEY/AGENT INFORMATION:

NAME: Connell, Gary J.

REGISTRATION NUMBER: 32,020

REFERENCE/DOCKET NUMBER: 2618-25-C2

TELECOMMUNICATION INFORMATION:

TELEPHONE: (303) 863-9700

TELEFAX: (303) 863-0223

INFORMATION FOR SEQ ID NO: 128:

SEQUENCE CHARACTERISTICS:

LENGTH: 815 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 1..762

OTHER INFORMATION: /note= "At pos. bp 453, change A to

M; at 454, change G to V; at 456, G to V; at 457, A to M;

OTHER INFORMATION: 460, A to R; at 470, G to S; at 493, A to R. At pos. aa 1

OTHER INFORMATION: 136, 152, 153, 154, 157 and 165, substitute xaa."

US-08-906-769-128

Query Match 0.5%; Score 16; DB 3; Length 815;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1478 aagaagtcagtcacca 1493
|||||

Db 181 AAGAAGTCAGTACCCA 166

RESULT 67

US-08-906-616-128/c
Sequence 128, Application US/08906616

Patent No. 6121035
GENERAL INFORMATION:
APPLICANT: Grieve, Robert B.
APPLICANT: Rushlow, Keith E.
APPLICANT: Wu Hunter, Shirley
APPLICANT: Frank, Glenn R.
APPLICANT: Stiegler, Gary
APPLICANT: Gaines, Patrick J.
APPLICANT: Silver, Gary
TITLE OF INVENTION: FLEA AMINOPEPTIDASE PROTEINS AND USES THEREOF
NUMBER OF SEQUENCES: 190
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sheridan Ross P.C.
STREET: 1700 Lincoln Street, Suite 3500
CITY: Denver
STATE: Colorado
COUNTRY: USA
ZIP: 80203
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/906.616
FILING DATE: 05-AUG-1997
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Connell, Gary J.
REGISTRATION NUMBER: 32,020
REFERENCE/DOCKET NUMBER: 2618-25-C2-3
TELEPHONE: (303) 863-9700
TELEFAX: (303) 863-0223
INFORMATION FOR SEQ ID NO: 128:
SEQUENCE CHARACTERISTICS:
LENGTH: 815 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1..762
OTHER INFORMATION: /note= "At pos. bp 453, change A to M; at 454, change G to V; at 456, G to V; at 457, A to M; at 460, A to R; at 470, G to S; at 493, A to R. At pos. aa 120, 136, 152, 153, 154, 157 and 165, substitute Xaa."
US-08-906-616-128
Query Match 0.5%; Score 16; DB 3; Length 815;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1478 aagaagtcagtagcca 1493
Db 181 AAGAAGTCAGTACCCA 166
RESULT 68
US-08-639-075A-128/c
Sequence 128, Application US/08639075A
Patent No. 6150125
GENERAL INFORMATION:
APPLICANT: Grieve, Robert B.
APPLICANT: Rushlow, Keith E.
APPLICANT: Wu Hunter, Shirley
APPLICANT: Frank, Glenn R.
APPLICANT: Stiegler, Gary
APPLICANT: Gaines, Patrick J.
APPLICANT: Silver, Gary
TITLE OF INVENTION: FLEA PROTEASE, PROTEINS, NUCLEIC ACID

TITLE OF INVENTION: MOLECULES AND USES THEREOF
NUMBER OF SEQUENCES: 190
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sheridan Ross & McIntosh
STREET: 1700 Lincoln Street, Suite 3500
CITY: Denver
STATE: Colorado
COUNTRY: USA
ZIP: 80203
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/639.075A
FILING DATE: 24-APR-1996
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Connell, Gary J.
REGISTRATION NUMBER: 32,020
REFERENCE/DOCKET NUMBER: 2618-25-C2
TELEPHONE: (303) 863-9700
TELEFAX: (303) 863-0223
INFORMATION FOR SEQ ID NO: 128:
SEQUENCE CHARACTERISTICS:
LENGTH: 815 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1..762
OTHER INFORMATION: /note= "At pos. bp 453, change A to M; at 454, change G to V; at 456, G to V; at 457, A to M; at 460, A to R; at 470, G to S; at 493, A to R. At pos. aa 136, 152, 153, 154, 157 and 165, substitute Xaa."
US-08-639-075A-128
Query Match 0.5%; Score 16; DB 3; Length 815;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1478 aagaagtcagtagcca 1493
Db 181 AAGAAGTCAGTACCCA 166
RESULT 69
US-08-651-136C-19
Sequence 19, Application US/08651136C
Patent No. 6001639
GENERAL INFORMATION:
APPLICANT: Schulein, Martin
APPLICANT: Andersen, Lene N.
APPLICANT: Lassen, Soren F.
APPLICANT: Kauppinen, Markus S.
APPLICANT: Lange, Lene
APPLICANT: Nielsen, Ruby I.
APPLICANT: Ihara, Michiko
APPLICANT: Takagi, Shinobu
TITLE OF INVENTION: No. 6001639e1 Endoglucanases
NUMBER OF SEQUENCES: 109
CORRESPONDENCE ADDRESS:
ADDRESSEE: No. 60016390 No. 6001639disk of No. 6001639th America, Inc.
STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401

```
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/651,136C
FILING DATE: 21-MAY-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 4366.200-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 1031 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 11..889
US-08-651-136C-19

Query Match 0.5%; Score 16; DB 3; Length 1031;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1409 tcccaacttcacgacg 1424
|||||
536 TCCCAACTTCCAGCAG 551

RESULT 70
US-08-651-136C-17
Sequence 17, Application US/08651136C
Patent No. 6001639
GENERAL INFORMATION:
APPLICANT: Schulein, Martin
APPLICANT: Andersen, Lene N.
APPLICANT: Lassen, Soren F.
APPLICANT: Kauppinen, Markus S.
APPLICANT: Lange, Lene
APPLICANT: Nielsen, Ruby I.
APPLICANT: Ihara, Michiko
APPLICANT: Takagi, Shinobu
TITLE OF INVENTION: No. 6001639el Endoglucanases
NUMBER OF SEQUENCES: 109
CORRESPONDENCE ADDRESS:
ADDRESS: No. 6001639o No. 6001639disk of No. 6001639th America, Inc.
STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/651,136C
FILING DATE: 21-MAY-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 4366.200-US

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/651,136C
FILING DATE: 21-MAY-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 4366.200-US

TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 1048 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 13..906
US-08-651-136C-17

Query Match 0.5%; Score 16; DB 3; Length 1048;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1409 tcccaacttcacgacg 1424
|||||
553 TCCCAACTTCCAGCAG 568

RESULT 71
US-08-933-750C-81/c
Sequence 81, Application US/08933750C
Patent No. 5932442
GENERAL INFORMATION:
APPLICANT: Lal, Preeti
APPLICANT: Hillman, Jennifer L.
APPLICANT: Bandman, Olga
APPLICANT: Shah, Purvi
APPLICANT: Au-Young, Janice
APPLICANT: Yue, Henry
APPLICANT: Guegler, Karl J.
APPLICANT: Corley, Neil C.
TITLE OF INVENTION: HUMAN REGULATORY MOLECULES
NUMBER OF SEQUENCES: 98
CORRESPONDENCE ADDRESS:
ADDRESS: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/933,750C
FILING DATE: September 23, 1997
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0356 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
TELEX:
INFORMATION FOR SEQ ID NO: 81:
SEQUENCE CHARACTERISTICS:
LENGTH: 1152 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
```

IMMEDIATE SOURCE:
LIBRARY: BLADNOT03
CLONE: 1602473
US-08-933-750C-81

Query Match 0.5%; Score 16; DB 2; Length 1152;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 2168 ccaagccatcagcggtg 2183
|||||
Db 928 CCAAGCCATCAGCGGTG 913

RESULT 72
US-09-234-613-81/c
Sequence 81, Application US/09234613
Patent No. 6132973
GENERAL INFORMATION:
APPLICANT: Lal, Preeti
APPLICANT: Hillman, Jennifer L.
APPLICANT: Bandman, Olga
APPLICANT: Shah, Purvi
APPLICANT: Au-Young, Janice
APPLICANT: Yue, Henry
APPLICANT: Guegler, Karl J.
APPLICANT: Corley, Neil C.
TITLE OF INVENTION: HUMAN REGULATORY MOLECULES
NUMBER OF SEQUENCES: 98
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/234,613
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/933,750
FILING DATE: September 23, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0356 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
TELEX:
INFORMATION FOR SEQ ID NO: 81:
SEQUENCE CHARACTERISTICS:
LENGTH: 1152 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: BLADNOT03
CLONE: 1602473
US-09-234-613-81

Query Match 0.5%; Score 16; DB 3; Length 1152;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2168 ccaagccatcagcggtg 2183
|||||
Db 928 CCAAGCCATCAGCGGTG 913

RESULT 73
US-08-739-485-4
Sequence 4, Application US/08739485
Patent No. 5863898
GENERAL INFORMATION:
APPLICANT: Goli, Surya K.
APPLICANT: Hillman, Jennifer L.
APPLICANT: Bandman, Olga
TITLE OF INVENTION: NOVEL HUMAN LIM PROTEINS
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: US
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/739,485
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0142 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
TELEX:
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 1225 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: Consensus
CLONE: Consensus
US-08-739-485-4

Query Match 0.5%; Score 16; DB 2; Length 1225;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1835 ccaggagggtcctgcac 1850
|||||
Db 441 CCAGGAGGTCTCTGCAC 456

RESULT 74
US-08-360-758-1/c
Sequence 1, Application US/08360758
Patent No. 6074863
GENERAL INFORMATION:
APPLICANT: Svendsen, Allan
APPLICANT: Pathar, Shankant A
APPLICANT: Egel-Mitani, Michi
APPLICANT: Borch, Kim
APPLICANT: Clausen, Ib G

APPLICANT: Hansen, Mogens T
TITLE OF INVENTION: C. ANTARCTICA LIPASE AND LIPASE VARIANTS
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: No. 60748630 No. 6074863disk of No. 6074863th America, Inc.
STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401
COMPUTER READABLE FORM:
MEDIUM TYPE: Tape
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/360,758
FILING DATE: 22-DEC-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: DK PCT/DK93/00225
FILING DATE: 03-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 3748.204-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1329 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-360-758-1

Query Match 0.5%; Score 16; DB 3; Length 1329;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1143 accgacacttgctcc 1158
1144 |
1245 ACCGACACTTGCTCC 1230

RESULT 75
US-08-889-425-3/C
Sequence 3, Application US/08889425
Patent No. 6153403
GENERAL INFORMATION:
APPLICANT: Lim, Bing
APPLICANT: Adia, Chaker N.
TITLE OF INVENTION: A Lysoosomal-Associated Multispanning
TITLE OF INVENTION: Membrane Protein, LAPTM5 and a Nucleic Acid Encoding
TITLE OF INVENTION: LAPTM5
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
STREET: Two Militia Drive
CITY: Lexington
STATE: Massachusetts
COUNTRY: USA
ZIP: 02173
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/889,425

FILING DATE: 08-JUL-1997
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Brook, David E.
REGISTRATION NUMBER: 22,592
REFERENCE/DOCKET NUMBER: BIH96-09pa
TELECOMMUNICATION INFORMATION:
TELEPHONE: (781) 861-6240
TELEFAX: (781) 861-9540
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1333 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 58..840
US-08-889-425-3

Query Match 0.5%; Score 16; DB 3; Length 1333;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

534 gaactggtgtgctggc 549
535 |
606 GAACTGGCTGTGCGGC 591

RESULT 76
US-09-032-372-9/C
Sequence 9, Application US/09032372
Patent No. 6008337
GENERAL INFORMATION:
APPLICANT: Bandman, Olga
APPLICANT: Hillman, Jennifer L.
APPLICANT: Corley, Neil C.
APPLICANT: Guegler, Karl J.
APPLICANT: Yue, Henry
APPLICANT: Lal, Preeti
TITLE OF INVENTION: CELL CYCLE RELATED PROTEINS
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/032,372
FILING DATE: Herewith
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0478-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-855-0555
TELEFAX: 650-845-4166
TELEX:
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:

LENGTH: 1341 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: BRAITUT21
CLONE: 2522306
3-09-032-372-9

Query Match 0.5%; Score 16; DB 3; Length 1341;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2624 cacggtccccaggag 2639

DB 794 CACGGTCCCCAGGAG 779

RESULT 77

US-08-374-155A-7
Sequence 7, Application US/08374155A
Patent No. 5786140

GENERAL INFORMATION:

APPLICANT: Mattes, Ralf
APPLICANT: Klein, Kathrin
APPLICANT: Schiweck, Hubert
APPLICANT: Kunz, Markwart
APPLICANT: Munir, Mohammed
TITLE OF INVENTION: Preparation of Acarlogenic Sugar
TITLE OF INVENTION: Substitutes
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:

ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
ADDRESSEE: Dunner

STREET: 1300 I Street, N.W.

CITY: Washington

STATE: D.C.

COUNTRY: USA

ZIP: 20005-3315

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/374,155A

FILING DATE: 18-JAN-1995

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Forman, David S

REGISTRATION NUMBER: 33,694

REFERENCE/DOCKET NUMBER: 05638.0006-00000

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202) 408-4000

TELEFAX: (202) 408-4400

INFORMATION FOR SEQ ID NO: 7:

SEQUENCE CHARACTERISTICS:

LENGTH: 1362 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

US-08-374-155A-7

Query Match 0.5%; Score 16; DB 1; Length 1362;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2213 gctgaaccacttcagc 2228

DB 594 GCTGAACCACCTTCAGC 609

RESULT 78

US-08-785-396-7
Sequence 7, Application US/08785396
Patent No. 5985622

GENERAL INFORMATION:

APPLICANT: Mattes, Ralf
APPLICANT: Klein, Kathrin
APPLICANT: Schiweck, Hubert
APPLICANT: Kunz, Markwart
APPLICANT: Munir, Mohammed
TITLE OF INVENTION: Preparation of Acarlogenic Sugar
TITLE OF INVENTION: Substitutes
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:

ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &

ADDRESSEE: Dunner

STREET: 1300 I Street, N.W.

CITY: Washington

STATE: D.C.

COUNTRY: USA

ZIP: 20005-3315

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/785,396

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/374,155

FILING DATE: 18-JAN-1995

ATTORNEY/AGENT INFORMATION:

NAME: Forman, David S

REGISTRATION NUMBER: 33,694

REFERENCE/DOCKET NUMBER: 05638.0006-00000

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202) 408-4000

TELEFAX: (202) 408-4400

INFORMATION FOR SEQ ID NO: 7:

SEQUENCE CHARACTERISTICS:

LENGTH: 1362 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

US-08-785-396-7

Query Match 0.5%; Score 16; DB 2; Length 1362;

Best Local Similarity 100.0%; Pred. No. 2.2e+02;

Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2213 gctgaaccacttcagc 2228

DB 594 GCTGAACCACCTTCAGC 609

RESULT 79

US-08-458-023B-1/C
Sequence 1, Application US/08458023B
Patent No. 5667990

GENERAL INFORMATION:

APPLICANT: Berka, Randy M.
APPLICANT: Yoder, Wendy
APPLICANT: Takagi, Shinobu
APPLICANT: Boomnathan, Karuppan C.
TITLE OF INVENTION: ASPERGILLUS EXPRESSION SYSTEM
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:

ADDRESSEE: No. 5667990o No. 5667990disk of No. 5667990th America, Inc.
STREET: 405 Lexington Avenue
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10174-6201
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/458,023B
FILING DATE: 01-JUN-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Lowrey Dr., Karen A.
REGISTRATION NUMBER: 31,274
REFERENCE/DOCKET NUMBER: 4086.010-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1389 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Candida antarctica
INDIVIDUAL ISOLATE: DSM 3855
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1389
5-08-458-023B-1

Query Match 0.5%; Score 16; DB 1; Length 1389;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1143 acccagcacttggtcc 1158
|||||
1305 ACCCAGCAGCTTGGTCC 1290

RESULT 80
US-09-111-556A-1/c
Sequence 1, Application US/09111556A
Patent No. 6020180
GENERAL INFORMATION:
APPLICANT: Svendsen, Allan
APPLICANT: Pathar, Shamkant A
APPLICANT: Egel-Mitani, Michi
APPLICANT: Borch, Kim
APPLICANT: Clausen, Ib G
APPLICANT: Hansen, Mogens T
TITLE OF INVENTION: C. ANTARCTICA LIPASE AND LIPASE VARIANTS
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: No. 6020180o No. 6020180disk of No. 6020180th America, Inc.
STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401
COMPUTER READABLE FORM:
MEDIUM TYPE: Tape
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

ADDRESSEE: No. 5667990o No. 5667990disk of No. 5667990th America, Inc.
STREET: 405 Lexington Avenue
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10174-6201
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/458,023B
FILING DATE: 01-JUN-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Lowrey Dr., Karen A.
REGISTRATION NUMBER: 31,274
REFERENCE/DOCKET NUMBER: 4086.010-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1389 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Candida antarctica
INDIVIDUAL ISOLATE: DSM 3855
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1389
5-08-458-023B-1

Query Match 0.5%; Score 16; DB 1; Length 1389;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1143 acccagcacttggtcc 1158
|||||
1305 ACCCAGCAGCTTGGTCC 1290

RESULT 80
US-09-111-556A-1/c
Sequence 1, Application US/09111556A
Patent No. 6020180
GENERAL INFORMATION:
APPLICANT: Svendsen, Allan
APPLICANT: Pathar, Shamkant A
APPLICANT: Egel-Mitani, Michi
APPLICANT: Borch, Kim
APPLICANT: Clausen, Ib G
APPLICANT: Hansen, Mogens T
TITLE OF INVENTION: C. ANTARCTICA LIPASE AND LIPASE VARIANTS
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: No. 6020180o No. 6020180disk of No. 6020180th America, Inc.
STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401
COMPUTER READABLE FORM:
MEDIUM TYPE: Tape
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/111,556A
FILING DATE: 22-DEC-1994
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: DK PCT/DK93/00225
FILING DATE: 03-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 3748.214-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1389 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-09-111-556A-1

Query Match 0.5%; Score 16; DB 3; Length 1389;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1143 acccagcacttggtcc 1158
|||||
1305 ACCCAGCAGCTTGGTCC 1290

RESULT 81
US-08-135-510-4/c
Sequence 4, Application US/08135510
Patent No. 5420028
GENERAL INFORMATION:
APPLICANT: CHIANG, John Young Ling
TITLE OF INVENTION: Truncated Human Cholesterol
7a-Hydroxylase, Method of Production and Use Thereof
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W., Suite 500
CITY: Washington, D.C.
COUNTRY: USA
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/135,510
FILING DATE: 13-OCT-1993
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: SANDERCOCK, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 18748/176 HOCE
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5300
TELEFAX: (202)672-5399
TELEX: 904136
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 1524 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
US-08-135-510-4

NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: CHRISTINE E. CARTY - MERCK & CO., INC.
STREET: 126 EAST LINCOLN AVENUE - P.O. BOX 2000
CITY: RAHWAY
STATE: NJ
COUNTRY: US
ZIP: 07065-0907
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/409,122
FILING DATE: 22-MAR-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/408,669
FILING DATE: 22-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: CARTY, CHRISTINE E
REGISTRATION NUMBER: 36,099
REFERENCE/DOCKET NUMBER: 19425
TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-594-6734
TELEFAX: 908-594-4720
TELEX:
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1524 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE:
ORIGINAL SOURCE:
US-08-409-122-1

Query Match 0.5%; Score 16; DB 1; Length 1524;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 227 cctgcagggtggtggca 242
|||||

Db 157 CCTGCAGGTGTTGGCA 172

RESULT 85
US-08-408-669-1
Sequence 1, Application US/08408669
Patent No. 5840306
GENERAL INFORMATION:
APPLICANT: HOFMANN, KATHRYN J.
APPLICANT: JANSEN, KATHRYN U.
APPLICANT: NEEPER, MICHAEL P.
TITLE OF INVENTION: DNA ENCODING HUMAN PAPILLOMAVIRUS TYPE 18
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: CHRISTINE E. CARTY - MERCK & CO., INC.
STREET: 126 EAST LINCOLN AVENUE - P.O. BOX 2000
CITY: RAHWAY
STATE: NJ
COUNTRY: US
ZIP: 07065-0907
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ Version 1.5

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/408,669
FILING DATE: 22-MAR-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: CARTY, CHRISTINE E
REGISTRATION NUMBER: 36,099
REFERENCE/DOCKET NUMBER: 19424
TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-594-6734
TELEFAX: 908-594-4720
TELEX:
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1524 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE:
ORIGINAL SOURCE:
US-08-408-669-1

Query Match 0.5%; Score 16; DB 2; Length 1524;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 227 cctgcagggtggtggca 242
|||||

Db 157 CCTGCAGGTGTTGGCA 172

RESULT 86
US-08-477-952-4/c
Sequence 4, Application US/08477952
Patent No. 5851780
GENERAL INFORMATION:
APPLICANT: CHIANG, John Young Ling
TITLE OF INVENTION: Genomic DNA of Human Cholesterol
7a-Hydroxylase and Methods of Using It
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W., Suite 500
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/477,952
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/361,458
FILING DATE: 21-DEC-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/135,511
FILING DATE: 13-OCT-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/135,488
FILING DATE: 13-OCT-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/135,510

FILING DATE: 13-OCT-1993
ATTORNEY/AGENT INFORMATION:
NAME: SANDERCOCK, COLIN G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 18748/221 HOCE
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5300
TELEFAX: (202)672-5399
TELEX: 904136
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 1524 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
US-08-477-952-4

Query Match 0.5%; Score 16; DB 2; Length 1524;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 499 caatcaaaatatttc 514
|||||

Db 252 CAATCAAAATATTTC 237

RESULT 87
US-08-386-727-5/c
; Sequence 5, Application US/08386727
; Patent No. 5792647
; GENERAL INFORMATION:
; APPLICANT: ROSEMAN, SAUL
; APPLICANT: BASSLER, BONNIE
; APPLICANT: KEYHANI, NEMAT O.
; APPLICANT: CHITLARU, EDITH
; APPLICANT: ROWE, CHRIS
; APPLICANT: YU, CHARLES
; TITLE OF INVENTION: BACTERIAL CATABOLISM OF CHITIN
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CUSHMAN, DARBY & CUSHMAN
; STREET: 1100 NEW YORK AVENUE, N.W.
; CITY: WASHINGTON
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386.727
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: HOBBS, ANN S.
; REGISTRATION NUMBER: 36,830
; REFERENCE/DOCKET NUMBER: 4130/206916
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-861-3000
; TELEFAX: 202-822-0944
; TELEX: 6714627 CUSH
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1713 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-386-727-5

Query Match 0.5%; Score 16; DB 1; Length 1713;
Best Local Similarity 100.0%; Pred. No. 2.3e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1176 tcagttcaaaccttc 1191
|||||

Db 241 TCAGTTCACACCTTC 226

RESULT 88
US-08-600-452A-5/c
; Sequence 5, Application US/08600452A
; Patent No. 5985644
; GENERAL INFORMATION:
; APPLICANT: ROSEMAN, SAUL
; APPLICANT: BASSLER, BONNIE
; APPLICANT: KEYHANI, NEMAT O.
; APPLICANT: CHITLARU, EDITH
; APPLICANT: ROWE, CHRIS
; APPLICANT: YU, CHARLES
; TITLE OF INVENTION: BACTERIAL CATABOLISM OF CHITIN
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FISH & RICHARDSON P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/600.452A
; FILING DATE: 13-FEB-1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Haille, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 07662/005001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 678-5070
; TELEFAX: (619) 678-5099
; TELEX:
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1713 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-600-452A-5

Query Match 0.5%; Score 16; DB 2; Length 1713;
Best Local Similarity 100.0%; Pred. No. 2.3e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1176 tcagttcaaaccttc 1191
|||||

Db 241 TCAGTTCACACCTTC 226

RESULT 89
US-08-467-948A-3/c
; Sequence 1, Application US/08467948A
; Patent No. 5998164
; GENERAL INFORMATION:
; APPLICANT: LI, YI
; APPLICANT: CAO, LIANG

APPLICANT: NI, JIAN
APPLICANT: GENTZ, REINER
APPLICANT: BULT, CAROL J.
APPLICANT: SUTTON III, GRANGER G.
APPLICANT: ROSEN, CRAIG A.
TITLE OF INVENTION: Polynucleotides Encoding Human G-Protein
TITLE OF INVENTION: Coupled Receptor GPR2
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
STREET: 1100 NEW YORK AVE., NW, SUITE 600
CITY: WASHINGTON
STATE: DC
COUNTRY: USA
ZIP: 20005

COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN RELEASE #1.0, VERSION #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,948A
FILING DATE: 06-JUN-1995
CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/04079
FILING DATE: 30-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: STEFFE, ERIC K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488.1140003/EKS/KLM

TELEPHONE: 202-371-2600
TELEFAX: 202-371-2540
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1713 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: both
MOLECULE TYPE: cdna
FEATURE:

NAME/KEY: CDS
LOCATION: 116..1003

US-08-467-948A-1

Query Match 0.5%: Score 16; DB 2; Length 1713;
Best Local Similarity 100.0%; Pred. No. 2.3e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 824 agcaaaaggagatgggc 839
|||||
D 409 AGCAAGGAGATGGGC 394

RESULT 90

US-08-467-947A-1/c
Sequence 1, Application US/08467947A
Patent No. 6090575

GENERAL INFORMATION:

APPLICANT: LI, YI
APPLICANT: CAO, LIANG
APPLICANT: NI, JIAN
APPLICANT: GENTZ, REINER
APPLICANT: BULT, CAROL J.
APPLICANT: SUTTON III, GRANGER G.
APPLICANT: ROSEN, CRAIG A.
TITLE OF INVENTION: Polynucleotides Encoding Human G-Protein
TITLE OF INVENTION: Coupled Receptor GPR1
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

STREET: 1100 NEW YORK AVE., NW, SUITE 600
CITY: WASHINGTON
STATE: DC
COUNTRY: USA
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN RELEASE #1.0, VERSION #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,947A
FILING DATE: 06-JUN-1995
CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/04079
FILING DATE: 30-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: STEFFE, ERIC K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488.1140002/EKS/KLM

TELEPHONE: 202-371-2600
TELEFAX: 202-371-2540
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1713 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: both
MOLECULE TYPE: cdna
FEATURE:

NAME/KEY: CDS
LOCATION: 116..1003

US-08-467-947A-1

Query Match 0.5%: Score 16; DB 3; Length 1713;
Best Local Similarity 100.0%; Pred. No. 2.3e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 824 agcaaaaggagatgggc 839
|||||
DB 409 AGCAAGGAGATGGGC 394

RESULT 91

US-07-688-352C-13
Sequence 13, Application US/07688352C
Patent No. 5527896

GENERAL INFORMATION:
APPLICANT: Wigler, Michael H.
APPLICANT: Colicelli, John J.
TITLE OF INVENTION: Cloning by Complementation and Related
TITLE OF INVENTION: Processes
NUMBER OF SEQUENCES: 57
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
ADDRESSEE: Bicknell
STREET: Two First National Plaza, 20 South Clark
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60603

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/688,352C
FILING DATE: 19910419

```

: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/511,715
: FILING DATE: 20-APR-1990
: ATTORNEY/AGENT INFORMATION:
: NAME: Borun, Michael F.
: REGISTRATION NUMBER: 25447
: REFERENCE/DOCKET NUMBER: 27805/30197
: TELEPHONE: (312) 346-5750
: TELEFAX: (312) 984-9740
: TELEX: 25-3856
: INFORMATION FOR SEQ ID NO: 13:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 1721 base pairs
: TYPE: NUCLEIC ACID
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: CDNA
: FEATURE:
: NAME/KEY: CDS
: LOCATION: 60..1274
: s-07-688-352C-13

Query Match 0.5%; Score 16; DB 1; Length 1721;
Best Local Similarity 100.0%; Pred. No. 2.3e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2731 cacagccgcgggccag 2746
DB 266 CACAGCCGCGGCCAG 281

RESULT 92
: s-08-474-379C-13
: Sequence 13, Application US/08474379C
: Patent No. 5977305
: GENERAL INFORMATION:
: APPLICANT: Wigler, Michael H.
: APPLICANT: Colicelli, John J.
: TITLE OF INVENTION: CLONING BY COMPLEMENTATION AND RELATED
: TITLE OF INVENTION: PROCESSES
: NUMBER OF SEQUENCES: 88
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
: STREET: 233 South Wacker Drive/6300 Sears Tower
: CITY: Chicago
: STATE: Illinois
: COUNTRY: United States of America
: ZIP: 60606-6402
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/474,379C
: FILING DATE: 07-JUN-1995
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/511,715
: FILING DATE: 20-APR-1990
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/206,188
: FILING DATE: 01-MAR-1994
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/688,352
: FILING DATE: 19-APR-1991
: ATTORNEY/AGENT INFORMATION:
: NAME: Clough, David W.
: REGISTRATION NUMBER: 36,107
: REFERENCE/DOCKET NUMBER: 27866/32771

```

```

: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (312) 474-6300
: TELEFAX: (312) 474-0448
: INFORMATION FOR SEQ ID NO: 13:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 1721 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: CDNA
: FEATURE:
: NAME/KEY: CDS
: LOCATION: 66..1274
: US-08-474-379C-13

Query Match 0.5%; Score 16; DB 2; Length 1721;
Best Local Similarity 100.0%; Pred. No. 2.3e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2731 cacagccgcgggccag 2746
DB 266 CACAGCCGCGGCCAG 281

RESULT 93
: US-09-146-249A-13
: Sequence 13, Application US/09146249A
: Patent No. 6069240
: GENERAL INFORMATION:
: APPLICANT: Wigler, Michael H.
: APPLICANT: Colicelli, John J.
: TITLE OF INVENTION: Cloning by Complementation and Related
: TITLE OF INVENTION: Processes
: NUMBER OF SEQUENCES: 85
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
: STREET: 6300 Sears Tower, 233 South Wacker Drive
: CITY: Chicago
: STATE: Illinois
: COUNTRY: United States of America
: ZIP: 60606-6402
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/146,249A
: FILING DATE:
: CLASSIFICATION:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/511,715
: FILING DATE: 20-APR-1990
: ATTORNEY/AGENT INFORMATION:
: NAME: Clough, David W.
: REGISTRATION NUMBER: 36,107
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 312/474-6300
: TELEFAX: 312-474-0448
: TELEX: 25-3856
: INFORMATION FOR SEQ ID NO: 13:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 1721 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: CDNA
: FEATURE:
: NAME/KEY: CDS
: LOCATION: 66..1274
: US-09-146-249A-13

```

Query Match 0.5%; Score 16; DB 3; Length 1721;
Best Local Similarity 100.0%; Pred. No. 2.3e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 2731 cacagccgcggccag 2746
|||||
266 CACAGCCGCGGCCAG 281

RESULT 94
US-08-206-188B-13
Sequence 13, Application US/08206188B
Patent No. 6100025
GENERAL INFORMATION:
APPLICANT: Wigler, Michael H.
TITLE OF INVENTION: Cloning by Complementation and Related
TITLE OF INVENTION: Processes
NUMBER OF SEQUENCES: 84
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/206,188B
FILING DATE: 01-MAR-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/511,715
FILING DATE: 20-APR-1990
ATTORNEY/AGENT INFORMATION:
NAME: Clough, David W.
REGISTRATION NUMBER: 36107
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/474-6300
TELEFAX: 312-474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 1721 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 66..1274
US-08-206-188B-13

Query Match 0.5%; Score 16; DB 3; Length 1721;
Best Local Similarity 100.0%; Pred. No. 2.3e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 2731 cacagccgcggccag 2746
|||||
266 CACAGCCGCGGCCAG 281

RESULT 95
PCT-US91-02714-13
Sequence 13, Application PCT/US9102714
GENERAL INFORMATION:
APPLICANT: Wigler, Michael H.

APPLICANT: Colicelli, John J.
TITLE OF INVENTION: Cloning by Complementation and Related
TITLE OF INVENTION: Processes
NUMBER OF SEQUENCES: 55
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
ADDRESSEE: Bicknell
STREET: Two First National Plaza, 20 South Clark
STREET: Street
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US91/02714
FILING DATE: 19910419
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/511,715
FILING DATE: 20-APR-1990
ATTORNEY/AGENT INFORMATION:
NAME: Borun, Michael F.
REGISTRATION NUMBER: 25447
REFERENCE/POCKET NUMBER: 27805/30197
TELECOMMUNICATION INFORMATION:
TELEPHONE: (312) 346-5750
TELEFAX: (312) 984-9740
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 1721 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 60..1274
PCT-US91-02714-13

Query Match 0.5%; Score 16; DB 4; Length 1721;
Best Local Similarity 100.0%; Pred. No. 2.3e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2731 cacagccgcggccag 2746
|||||
DB 266 CACAGCCGCGGCCAG 281

RESULT 96
US-08-481-814A-2
Sequence 2, Application US/08481814A
Patent No. 5869040
GENERAL INFORMATION:
APPLICANT: Hsu, Yen-Ming
TITLE OF INVENTION: GENE THERAPY METHODS AND COMPOSITIONS
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Biogen, Inc.
STREET: 14 Cambridge Center
CITY: Cambridge
STATE: Massachusetts
COUNTRY: United States of America
ZIP: 02142
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/481.814A
FILING DATE:
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Kaplan, Warren A.
REFERENCE/DOCKET NUMBER: A001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-679-2000
TELEFAX: 617-679-2838
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 1766 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA to mRNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
CELL LINE: HeLa
FEATURE:
NAME/KEY: mat_peptide
LOCATION: 429..1739
OTHER INFORMATION: /product= "E2F-2"
S-08-481-814A-2

Query Match 0.5%; Score 16; DB 2; Length 1766;
Best Local Similarity 100.0%; Pred. No. 2.3e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Y 2735 gccgcggccaggagg 2750
|||||

25 262 GCCGCGGCCAGGAGG 277

RESULT 97
S-08-993-228-1
Sequence 1, Application US/08993228
Patent No. 5976838
GENERAL INFORMATION:
APPLICANT: Jacobs, Kenneth
APPLICANT: McCoy, John M.
APPLICANT: Lavalie, Edward R.
APPLICANT: Racie, Lisa A.
APPLICANT: Merberg, David
APPLICANT: Treacy, Maurice
APPLICANT: Spaulding, Vikki
APPLICANT: Agostino, Michael J.
TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES
TITLE OF INVENTION: ENCODING THEM
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genetics Institute, Inc.
STREET: 87 Bridgepark Drive
CITY: Cambridge
STATE: MA
COUNTRY: U.S.A.
ZIP: 02140
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/993,228
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:

NAME: Sprunger, Suzanne A.
REGISTRATION NUMBER: 41,323
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 498-8284
TELEFAX: (617) 876-5851
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1790 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-08-993-228-1

Query Match 0.5%; Score 16; DB 2; Length 1790;
Best Local Similarity 100.0%; Pred. No. 2.3e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1581 tctctgtactggact 1596
|||||

Db 1235 TCTCTGCTACTGGACT 1250

RESULT 98
US-09-231-529-2
Sequence 2, Application US/09231529
Patent No. 6096308
GENERAL INFORMATION:
APPLICANT: Lal, Preeti
APPLICANT: Hillman, Jennifer L.
APPLICANT: Bandman, Olga
APPLICANT: Corley, Neil C.
APPLICANT: Shah, Purvi
TITLE OF INVENTION: HUMAN PROTEIN KINASE AND KINASE INHIBITORS
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Dr.
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/231,529
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/977,816
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0429 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-855-0555
TELEFAX: 650-845-4166
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 1977 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: KIDNNOT25
CLONE: 3453694
US-09-231-529-2

Query Match 0.5%; Score 16; DB 3; Length 1977;
Best Local Similarity 100.0%; Pred. No. 2.3e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1462 cagcccccagcagagaa 1477

|||||

419 CAGCCCCAGCAGAGAA 434

RESULT 99

US-09-255-911-1

Sequence 1, Application US/09255911

Patent No. 6013522

GENERAL INFORMATION:

APPLICANT: Brett P. Monia

APPLICANT: Lex M. Cowser

TITLE OF INVENTION: ANTISENSE MODULATION OF SMAD1 EXPRESSION

FILE REFERENCE: RTS-0040

CURRENT APPLICATION NUMBER: US/09/255,911

CURRENT FILING DATE: 1999-02-23

NUMBER OF SEQ ID NOS: 46

SEQ ID NO 1

LENGTH: 1990

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: CDS

LOCATION: (433)..(1830)

US-09-255-911-1

Query Match 0.5%; Score 16; DB 3; Length 1990;
Best Local Similarity 100.0%; Pred. No. 2.3e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1077 atggcccccagcatctg 1092

|||||

1831 atggcccccagcatctg 1846

RESULT 100

US-08-619-554-7

Sequence 7, Application US/08619554

Patent No 5821353

GENERAL INFORMATION:

APPLICANT: DOUGLAS, Cameron M.

APPLICANT: CHREBET, Gary L.

APPLICANT: CLEMAS, Joseph

APPLICANT: EL-SHERBEINI, Mohammed

APPLICANT: FOOR, Forrest

APPLICANT: KAHN, Jennifer

APPLICANT: KELLY, Rosemarie, - PARENT, S.A.

APPLICANT: MARRINAN, Jean, - RAMADAN, N.M.

APPLICANT: MORIN, Nancy, - REGISTER, E.A.

APPLICANT: ONISHI, Janet, - SHEI, Gan-Ju

TITLE OF INVENTION: DNA ENCODING 1,3 BETA-D GLUCAN

TITLE OF INVENTION: SYNTHASE SUBUNITS

NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:

ADDRESSEE: JOSEPH A. COPPOLA - MERCK & CO., INC.

STREET: 126 EAST LINCOLN AVENUE - P.O. BOX 2000

CITY: RAHWAY

STATE: NJ

COUNTRY: USA

ZIP: 07065

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FASTSEQ for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/619,554

FILING DATE: 01-AUG-1996
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: COPPOLA, JOSEPH A
REGISTRATION NUMBER: 38,413
REFERENCE/DOCKET NUMBER: 19104PI
TELECOMMUNICATION INFORMATION:
TELEPHONE: 732-594-6734
TELEFAX: 732-594-4720
TELEX:

INFORMATION FOR SEQ ID NO: 7:

SEQUENCE CHARACTERISTICS:

LENGTH: 2069 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

US-08-619-554-7

Query Match 0.5%; Score 16; DB 1; Length 2069;
Best Local Similarity 100.0%; Pred. No. 2.3e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 919 agattttggctgaaga 934

|||||

Db 1298 AGATTTTGGCTGAAGA 1313

Search completed: February 18, 2001, 14:23:44
Job time: 24889 sec

GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

.M nucleic - nucleic search, using sw model

Run on: February 18, 2001, 05:22:53 ; Search time 2148.29 Seconds
(without alignments)
9648.673 Million cell updates/sec

Title: US-09-434-382-3
Perfect score: 2958
Sequence: 1 ccggcgctagtgaccggc.....ataaagattgagttgcaa 2958

Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0
Searched: 7991742 seqs, 3503743858 residues

Word size : 0
Total number of hits satisfying chosen parameters: 15983484

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 100 summaries

Database :

EST:*

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4: gb_est4.*
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191: em_estp90:*
192: em_estp91:*
193: em_estp92:*

190: gb_gss25:*
191: gb_gss26:*
192: gb_gss27:*
193: gb_gss28:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB	ID	Description
1	676	22.9	676	106	BE260495	BE260495 601150702
2	614	20.8	975	105	BE260412	BE260412 600943455
3	590	19.9	664	107	BE383336	BE383336 601298249
4	590	19.9	692	107	BE382353	BE382353 601298256
5	537	18.2	627	107	BE386924	BE386924 601274815
6	528	17.8	761	135	BE795820	BE795820 601590856
7	521	17.6	688	135	BE794311	BE794311 601591442
8	478	16.2	531	92	AW572950	AW572950 hf17h05.x
9	465	15.7	823	110	BE619259	BE619259 601473130
10	458	15.5	531	4	AA243700	AA243700 zr68g08.s
11	451	15.2	451	17	AI200296	AI200296 qf86b12.x
12	450	15.2	812	136	BE867512	BE867512 601443010
13	448	15.1	499	91	AW510825	AW510825 hd40b11.x
14	447	15.1	938	106	BE260626	BE260626 601146116
15	442	14.9	493	92	AW575677	AW575677 UI-HF-BM0
16	438	14.8	612	106	BE304720	BE304720 601106236
17	436	14.7	493	7	AA455121	AA455121 zx78c04.s
18	425	14.4	478	92	AW592601	AW592601 hf45a09.x
19	425	14.4	527	16	AI089646	AI089646 qb16g07.x
20	421	14.2	421	20	AI468143	AI468143 qf92g05.x
21	421	14.2	536	87	AW206103	AW206103 UI-H-B1-
22	404	13.7	404	88	AW304130	AW304130 xs13e05.x
23	402	13.6	474	4	AA291670	AA291670 zt37d04.s
24	400	13.5	992	135	BE747163	BE747163 601577254
25	384	13.0	574	105	BE250309	BE250309 600943455
26	380	12.8	431	5	AA310236	AA310236 EST181085
27	373	12.6	949	135	BE744197	BE744197 601577168
28	370	12.5	370	137	BE883616	BE883616 601508091
29	368	12.4	745	137	BE900936	BE900936 601674206
30	352	11.9	518	144	R87541	R87541 ym89b04.r1
31	351	11.9	855	146	W27286	W27286 28h1 Human
32	347	11.7	790	137	BE892893	BE892893 601435738
33	343	11.6	396	12	AA811170	AA811170 Ob42c03.s
34	342	11.6	446	10	AA634909	AA634909 ab27h02.r
35	342	11.6	452	10	AA679618	AA679618 ag72c12.s
36	341	11.5	698	135	BE795434	BE795434 601592991
37	338	11.4	345	90	AW407520	AW407520 UI-HF-BM0
38	334	11.3	677	135	BE742908	BE742908 601574609
39	330	11.2	416	106	BE298273	BE298273 601118143
40	329	11.1	940	135	BE743831	BE743831 601577742
41	325	11.0	531	27	AI937465	AI937465 wp77e01.x
42	323	10.9	397	10	AA632118	AA632118 np66h03.s
43	323	10.9	482	144	R55841	R55841 yg89d01.r1
44	315	10.6	366	4	AA233087	AA233087 zr68g08.r
45	307	10.4	735	137	BE902696	BE902696 601677393
46	302	10.2	491	10	AA676661	AA676661 zj67h01.s
47	301	10.2	480	144	R90875	R90875 ym01d02.r1
48	301	10.2	511	95	AW771657	AW771657 hn59h05.x
49	291	9.8	297	97	AW994476	AW994476 RC3-BN003
50	291	9.8	404	17	AI174501	AI174501 an42e05.s
51	290	9.8	494	136	BE858252	BE858252 7g21a09.x
52	287	9.7	414	105	BE243887	BE243887 TCBAP1E15
53	286	9.7	355	6	AA353573	AA353573 EST16179
54	285	9.6	397	146	W37486	W37486 zc10f03.s1
55	284	9.6	394	88	AW248468	AW248468 2820640.3
56	283	9.6	489	25	AI803400	AI803400 tc42f03.x
57	282	9.5	307	145	T34216	T34216 EST64345 Hu
58	281	9.5	489	8	AA534478	AA534478 nf76f10.s
59	276	9.3	278	95	AW806551	AW806551 ILO-ST000

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60 276 9.3 461 10 AA635046
61 274 9.3 364 87 AW175581 QVO-BT004
62 273 9.2 457 14 AA994126
63 266 9.0 984 135 BE744876
64 255 8.6 410 15 AI033108
65 255 8.6 461 92 AW592223
66 253 8.6 479 11 AA716607
67 250 8.5 501 5 AA311855
68 248 8.4 299 147 Z17886
69 247 8.4 517 27 AI991599
70 246 8.3 387 137 BE938229
71 245 8.3 429 12 AA838624
72 243 8.2 346 96 AW889463
73 238 8.0 414 141 H22087
74 236 8.0 691 107 BE409312
75 235 7.9 439 17 AI201492
76 233 7.9 233 14 AF188525
77 233 7.9 394 141 H14462
78 232 7.8 865 8 AA522537
79 228 7.7 282 13 AA928608
80 228 7.7 282 145 T34024
81 227 7.7 433 19 AI357786
82 224 7.6 872 110 BE615669
83 221 7.5 291 4 AA235532
84 220 7.4 477 25 AI804749
85 218 7.4 228 88 AW296524
86 218 7.4 448 142 N36229
87 214 7.2 316 91 AW511765
88 211 7.1 249 88 AW247380
89 209 7.1 650 89 AW378247
90 207 7.0 219 8 AA504146
91 206 7.0 422 146 W37591
92 199 6.7 472 144 R51138
93 198 6.7 416 16 AI141263
94 193 6.5 394 6 AA346268
95 184 6.2 276 6 AA378232
96 182 6.2 290 147 Z44544
97 182 6.2 424 141 H03318
98 180 6.1 482 15 AI033342
99 179 6.1 577 110 BE619874
100 178 6.0 376 145 T72963

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ALIGNMENTS

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RESULT 1
LOCUS BE260495 676 bp mRNA EST 13-JUL-2000
DEFINITION 601150702F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503184 5',
mRNA sequence.
ACCESSION BE260495
VERSION BE260495.1 GI:9131807
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NIH-MGC http://www.ncbi.nlm.nih.gov/MGC/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Tel: (301) 496-1550
Email: Robert.Strausberg@nih.gov
Tissue Procurement: ATCC
cDNA Library Preparation: Ling Hong/Rubin Laboratory
AUTHORS The I.M.A.G.E. Consortium (LLNL)
TITLE cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
JOURNAL DNA Sequencing by: Incyte Genomics, Inc.
COMMENT Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov
Plate: LLCM176 row: d column: 01
High quality sequence stop: 672.

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FEATURES             Location/Qualifiers
     source            1..676
                     /organism="Homo sapiens"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:3503184"
                     /clone_lib="NIH_MGC_19"
                     /tissue_type="neuroblastoma"
                     /lab_host="DH10B (phage-resistant)"
                     /note="Organ: brain; Vector: pOTB7; Site_1: XhoI; Site_2:
                     EcoRI; cDNA made by oligo-dr priming. Directionally
                     cloned into EcoRI/XhoI sites using the following 5'
                     adaptor: GGCAGCAG(G). Library constructed by Ling Hong
                     in the laboratory of Gerald M. Rubin (University of
                     California, Berkeley) using ZAP-cDNA synthesis kit
                     (Stratagene) and Superscript II RT (Life Technologies).
                     Note: this is a NIH_MGC Library."
BASE COUNT   154 a   207 c   176 g   139 t
ORIGIN
Query Match      22.9%; Score 676; DB 106; Length 676;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 676; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1143 acccagcattgtctgaatgagaactgtgctcagttcacaaaccttcacaggttcccaag 1202
      |||||
DB 1 ACCCAGCATTGTCTCTGAATGAGAACTGTGCTCAGTTCACAACTTCGAGCCACACAG 60
      |||||
QY 1203 attcaaacccagctcaacctcaccacccgagatcttccccctgtcaccagtttccgc 1252
      |||||
DB 61 ATTCAAAACCCAGCTCAACCTCATCCACCGGACATCTTCCCTCCTCACCAGTTTCCGC 120
      |||||
QY 1263 tftaagaaggagggcccccacccctcagtggtccatggttcagggtgaatgcctcccaag 1322
      |||||
DB 121 TGTAAAGAGAGGGGGCCCAACCTCAGTGTGCCATGTGTTCAGGGTGAATGCTCTCTCAAG 180
      |||||
QY 1323 taccagctcgtccccagagggagtggtgagagggatgacctattacttgcaatcctgag 1382
      |||||
DB 181 TACCAGCTCCGTCCAGGAGGGAGTGGCAGAGGGATGCCATTATTACTTGCATCTGTAG 240
      |||||
QY 1383 gaattcatagttgagcgtcagcttcccaacttccacagcagagcgtgcagaggtacag 1442
      |||||
DB 241 GAATTCATAGTTGAGCGCTGCAGCTTCCCAACTTCCACGAGAGCGTGCGAGGATACAGG 300
      |||||
QY 1443 aggagtggcagagcggcccccagcagagagagagagagagagagagagagagagagag 1502
      |||||
DB 301 AGGAGTGGCGAGGAGCGGCCCGCCAGCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 360
      |||||
QY 1503 ttccctggaacagggtctgctccatcccgatgaagattcgaaatgctcagtgccacactgtc 1562
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DB 361 TTCTTTGGNACAGGGTCTGCCATCCCGATGAGATTCGAAATGTCAGTGCACACATTGTC 420
      |||||
QY 1563 aacataagcccccagcacgtctctgtactgtgactgtggtgagggcacatttggggagctg 1622
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DB 421 AACATAAGCCCGCACACAGTCTCTGTCTACTGTGACTGTGTGTGAGGGACATTTGGGACGCTG 480
      |||||
QY 1623 tgccttcattagcagagaccaggtgacagaggttcctcgggacccctggtcgtgtgttctg 1682
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DB 481 TCCCGTCAATTACGAGAGACCAGGTGACAGGGTCTTGGGACACCTTGGCTGTGTGTGTG 540
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QY 1683 tccccacctgcagcagatcacacacagggcttgcgaagtattctgtcgcagagagagcgc 1742
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DB 541 TCCCACCTGCACGCGAGATCACACACAGGGCTTGGCAAGTATCTTGTGCGAGAGAGAGAGCG 600
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QY 1743 gcttggcatctttgggaaagcgcgttccaccttctgctggtgtgtgtgtgtgtgtgtgtgt 1802
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DB 601 GCCTTGGCATCTTTGGGAAAGCGCTTACCCTTTGCTGGTGTGTGTGTGTGTGTGTGTGTG 660
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QY 1803 aaagcctggctccagc 1818
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DB 661 AAAGCCTGGCTCCAGC 676
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-RESULT 2
BE250412/c
LOCUS BE250412/c
DEFINITION BE250412 Homo sapiens cDNA clone IMAGE:2960077 3',
mRNA sequence.
FEATURES             Location/Qualifiers
     source            1..975
                        /organism="Homo sapiens"
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                        /tissue_type="rhabdomyosarcoma"
                        /lab_host="DH10B (phage-resistant)"
                        /note="Organ: muscle; Vector: pOTB7; Site.1: EcoRI;
                        Site.2: XhoI; cDNA made by oligo-dT priming.
                        Directionally cloned into EcoRI/XhoI sites using the
                        following 5' adaptor: GGCACGAG(G). Size-selected >500bp
                        for average insert size 1.8kb. Library constructed by
                        Ling Hong in the laboratory of Gerald M. Rubin (University
                        of California, Berkeley) using ZAP-cDNA synthesis kit
                        (Stratagene) and Superscript II RT (Life Technologies).".
BASE COUNT 185 a 296 c 258 g 236 t
ORIGIN
Query Match 20.8%; Score 614; DB 105; Length 975;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 614; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
2197 acgcgaggttcattatgctgaacacacttcagcagcgctatgccaaagtcctctcttca 2556
|||||
711 ACGCGAGTTCAATTATGCTGAACCACTTCAGCCAGCGCTATGCCAAGTCCCCCTCTTCA 652
|||||
2257 gcccaacttcagcgaaagtgagggttcgctttgaccacatgaaggtcgtcttgag 2316
|||||
651 GCCCCAACTTCACGGAAAGTGGAGTTCCTTTGACCACATGAAGTCTGCTTTGGAG 592
|||||
2317 actttccaaatgccaaagctgattcccccaactgaaagccctgtttgctggcgacatcg 2376
|||||
591 ACITTCACAATGCCAAGCTGATTCGCCACTGAAGCCCTGTTGCTGGCGACATCG 532
|||||
2377 agagatggaggcgcaggaggagaagcggagctgcgcagaggtgcggcgccctcctgt 2436
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531 AGGAGATGGAGGCGCAGGAGGAAGCGGAGGTGCGGCAGGTGCGGCGCGCCCTCCTGT 472
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2437 ccaggagctggcagcgcgctagagatggagcctcagcagaacgcggccacacag 2496
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471 CCAGGAGCTGGCAGGCGGCTCGAGGATGGGAGCCTCAGCAAGCGGCGCCACACAG 412
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2497 aggagccacaggccagaaaggtcagagcccgtaagatctgggagacctgaactcaga 2556
|||||

```

```

Matches 590; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
-y 1143 accagcacttggtctgaatgagaaactgtgctcagttcaacaaccttcgagccacaag 1202
-b 1 ACCCAGCAGCTTGGTCTGAATGAGAACTGTGCTCAGTTCACAACCTTCGGAGCCACAG 60
-y 1203 attcaaacccagctcaactcaatccaccgacacttctccctctcaccagtttcgc 1262
-b 61 ATTCAAAACCCAGCTCAACCTCATCCACCCGACATCTTCCCTCCTCCTCAGTTCGC 120
-y 1263 tgaagaaggaggcccccacacctcagttgcccattggttcaggtgaatgcctcctcaag 1322
-b 121 TGTAGAAAGGAGGGCCCCACCTCAGTGTGCCATGGTTCAGGGTGAATGCTCCTCAAG 180
-y 1323 taccagctccgtccagagaggagtgagaggggagtgccattattacttgaactctgag 1382
-b 181 TACCAGCTCCGTCCAGAGGGAGGTGGCAGAGGGATGCCATTATTACTTGAATCCTGAG 240
-y 1383 gaattcatagtgagcgtcagcttcccaacttccagcagagcgtgcagaggtacagg 1442
-b 241 GAATTCATAGTTGAGCGCTGCGAGCTTCCCACTTCCAGCAGAGCGTGCAGAGTACAG 300
-y 1443 aggaatgcgagcagggcccccagccccagcagagaaaagaagtcagtcaccagaaatc 1502
-b 301 AGGAGTGGCAGGAGCGCCAGCCAGCCAGCAGAGAAAAGAGTCAGTACCAGAAATCATC 360
-y 1503 ttcttgaaacaggtctgcacatcccgatgagatgaagattcaaatgtcagtgcaacattgtc 1562
-b 361 TTCTTGAACAGGCTGTGCCATCCCGATGAAGATTCGAAATGTGAGTGCACACATTGTC 420
-y 1563 aacataaccccgacacgtctctgactgactgtgagtgagggcacatttgggcagctg 1622
-b 421 AACATAAGCCCCGACACGCTCTGCTACTGGACTGTGTGAGGGACATTTGGGCAGCTG 480
-y 1623 tgcctgattacggagaccaggtgacaggggtccctgggacacctgctgtgtgtgtg 1682
-b 481 TGCCGTCTATTACGGAGACCGAGGTGGACAGGGTCTTGGGACCCCTGCTGTGTGTG 540
-y 1683 tccacctgcagcagatcaccacagcggcttgccaaagtattctctgca 1732
-b 541 TCCCACTGCACGAGATCACACACGGGCTTGCACAGGTGTCACCAAGTATCTTCTGCA 590

RESULT 4
LOCUS BE382353 692 bp mRNA EST 21-JUL-2000
DEFINITION 601298656f1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3629028 5',
mRNA sequence.
CCESSION BE382353
VERSION BE382353.1 GI:9327718
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 692)
NIH-MGC http://www.ncbi.nlm.nih.gov/MGC/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Tel: (301) 496-1550
Email: Robert.Strausberg@nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov
Plate: LICM314 row: 6 column: 13
High quality sequence stop: 600.
Location/Qualifiers
1..692
/organism="Homo sapiens"
FEATURES
source

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/db_xref="taxon:9606"
/clone="IMAGE:3629028"
/clone_lib="NIH_MGC_19"
/tissue_type="neuroblastoma"
/lab_host="DH10B (phage-resistant)"
/notes="Organ: brain; Vector: pOTB7; Site: 1: XhoI; Site 2:
ECORI; cDNA made by oligo-dT priming. Directionally
cloned into EORI/XhoI sites using the following 5'
adaptor: GGCAGAG(G). Library constructed by Ling Hong
in the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-CDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC Library."
BASE COUNT 152 a 193 c 197 g 150 t
ORIGIN

Query Match 19.9%; Score 590; DB 107; Length 692;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 590; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 1525 tccgatgaagattcgaaatgtcagtgccacactgtcaacataagccccacagctctc 1584
Db 1 TCCCGATGAAGATTGCAAAATGTCACTGCCACACTTGTCAACATAAGCCCGACAGCTCTC 60
Oy 1585 tgcctactgactgtgtgagggcacatttggcagctgcccgtcattacagagaccagg 1644
Db 61 TGCTACTGGACTGTGTGAGGGCACATTTGGGACAGTGTGCGCTCATTCAGGAGACCAG 120
Oy 1645 tggacagggctcctgggacccctggctgtgtgttgcacacctgcacgcagatcacc 1704
Db 121 TGGACAGGGTCTTGGGACCCCTGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 180
Oy 1705 acaggggtcttcccaagtattctgtgcagagagaacgcgccttggcatttgggaaagc 1764
Db 181 ACACGGGCTTGCCAAAGTATCTTGCTGCAGAGAGAAGCGGCTTGGCATCTTTGGGAAAGC 240
Oy 1765 cgcttcaaccttgggtgtgttcccccaaccagctcaaacctggctggcagagctacc 1824
Db 241 CGCTTACCCCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 300
Oy 1825 acaacagtgccagaggtcctgcaccacatcagtatgttccctccaaatgccttcagg 1884
Db 301 ACACACAGTGCAGAGAGTCTCTGCACACATCAGTATGATTCCTGCCAAATGCCCTTCAGG 360
Oy 1885 aaggggtgcagatctccagtcctcagtcagtggaagattgatcagttcgtgtgtgaaacat 1944
Db 361 AAGGGGCTGCAGATCTCCAGTCTCTGCAGTGGAAAGATTGATCAGTTCGCTGTGTGCAACAT 420
Oy 1945 gtgatttgaagagatttcagacctgtctgtgcggcagtcgaagcagatcgttggctgtg 2004
Db 421 GTGATTTGGAAGAGTTTCAGACCTGTCTGTGTGCGGCACATGCAAGCATGCGTTGTGCTGTG 480
Oy 2005 cgctgggtgcacacctcctgggtggaagtggtctattccggggacacacctgccttcgagg 2064
Db 481 CGCTGGTGCACACCTCTGCTGGTGGAAAGTGGTCTATTTCGGGGACACCATGCTCCTCGGAGG 540
Oy 2065 ctctgttcgggatggggaagatgccacctcctctgatacatgaagccacc 2114
Db 541 CTCTGTGTCGGATGGGGAAGATGCCACCTCTCCCTCTCTGATACATGAAGCCACC 590

RESULT 5
LOCUS BE386924 627 bp mRNA EST 21-JUL-2000
DEFINITION 601274815f1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3615939 5',
mRNA sequence.
ACCESSION BE386924
VERSION BE386924.1 GI:9332387
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

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b 435 ATTCCGGGACACCATGCCCTCGAGGCTCTGGTCCGGATGGGAAGATGCCACCTCC 494
y 2098 tgatacatgaagccaccctcggaagatggtttggaagagaagcag 2142
b 495 TGATCATGAAGCCACCCCTGGAAGATGTTTGAAGAGAGCAG 539

RESULT 10
AA243700 531 bp mRNA EST 07-MAR-1997
DEFINITION zrf68g08.s1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:668606 3'
similar to SW:YK59_YEAST P36159 HYPOTHETICAL 96.8 KD PROTEIN IN
SI52-MTD1 INTERGENIC REGION. ; mRNA sequence.
ACCESSION AA243700
VERSION AA243700.1 GI:1074492
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 531)
AUTHORS Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M., Holman
M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M., Parsons,J.,
Rifkin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston
R., Williamson,A., Wohldmann,P. and Wilson,R.
TITLE The WashU-Merck EST Project
JOURNAL Unpublished (1995)
COMMENT Contact: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@wustl.wustl.edu
This clone is available royalty-free through LNL ; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Possible reversed clone: similarity on wrong strand
Seg primer: -41m3 fwd. Et from Amersham
High quality sequence stop: 466.
Location/Qualifiers
1. 531
/organism="Homo sapiens"
/db_xref="GDB:5562573"
/db_xref="taxon:9606"
/clone="IMAGE:668606"
/clone_lib="Soares_NHMPu_S1"
/tissue_type="Pooled human melanocyte, fetal heart, and
pregnant uterus"
/lab_host="DH10B"
/note="Organ: mixed (see below); Vector: pT73D-Pac
(Pharmacia) with a modified polylinker; Site_1: Not I;
Site_2: Eco RI; Equal amounts of plasmid DNA from three
normalized libraries (melanocyte 2NbHM, pregnant uterus
NbHPU, and fetal heart NBH19W) were mixed, and ss circles
were made in vitro. Following HAP purification, this DNA
was used as tracer in a subtractive hybridization
reaction. The driver was PCR-amplified cDNAs from pools of
5,000 clones made from the same 3 libraries. The pools
consisted of I.M.A.G.E. clones 260232-265223,
340488-345479, and 484488-489479."
BASE COUNT 144 a 137 c 143 g 107 t
ORIGIN
Query Match 15.5%; Score 458; DB 4; Length 531;
Best Local Similarity 100.0%; Pred. No. 5e-231;
Matches 458; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
y 251 ccggagactcggcgccgctctacgtcttcctccgagttcaaccggtatctcttcaactg 310
b 74 CCGGACTCGGGCGCGCTCTACGTCCTCTCCGAGTTCACCGGTATCTCTCTCAACG 133
y 311 tggagaagcggttcagagactcagcaggaacaaagttaaagggttcgcgcctggacaa 370
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Db 134 TGGAGAAGCGGTTGAGAGACTCATGACGAGCAGACAGTAAAGGTTGCTCGCTCGACAA 193
Qy 371 catattctgcacagaatgcactgctctaaagtgtggggccttaagtgaatgattcttac 430
Db 194 CATATTCTGCACACGAATGCACCTGCTAAATGTTGGGGCTTAAAGTGAATGATCTTAC 253
Qy 431 tttaaagaaacccgggcttccaaagtgtacttctctggaacctccacaactgaaaaata 490
Db 254 TTAAAGAAACCCGGCTTCCAAAGTGTACTTCTTGACCTCCACAACCTGAAAAATA 313
Qy 491 cctcgaagaacaatcaaaaattttcttggtccattgaaaggaatagaactggtgtcgggcc 550
Db 314 CTCTGAAGCAATCAAAATATTTCTGGTCCATTGAAGGAATAGAATGGCTGTGGGCC 373
Qy 551 ccactctgcccagaatacagaggatgaaccatgacaggtttaccagatccccatacacag 610
Db 374 CCACCTCTGCCCCAGAAATACGAGGATGAACACCATGACAGTTTACCAGATCCCATACAG 433
Qy 611 tgaacagagggagggaagcaccacacatgagcagatccagaaaggcctctcagcagct 670
Db 434 TGAACAGAGGAGGGGAAAGACCAACCATGGCAGAGTCCAGAAAGGCCCTCTCAGCAGGCT 493
Qy 671 cagtcagagcgatcttcagactccgagtcggaatgaaa 708
Db 494 CAGTCCAGAGCGATCTTCAGACTCCGAGTCGGAATGAAA 531

RESULT 11
AI200296 451 bp mRNA EST 14-OCT-1998
LOCUS qf86b12.x1 Soares_fetal_lung_NbH19W Homo sapiens cDNA clone
DEFINITION IMAGE:I756895 3' similar to SW:YK59_YEAST P36159 HYPOTHETICAL 96.8
KD PROTEIN IN SI52-MTD1 INTERGENIC REGION. ; mRNA sequence.
ACCESSION AI200296
VERSION AI200296.1 GI:3752902
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 451)
AUTHORS NCI-CCAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Tel: (301) 496-1550
Email: Robert.Strausberg@nih.gov
This clone is available royalty-free through LNL ; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Seq primer: -40UP from Gibco
High quality sequence stop: 442.
Location/Qualifiers
1. 451
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:I756895"
/clone_lib="Soares_fetal_lung_NbH19W"
/dev_stage="19 weeks"
/lab_host="DH10B (ampicillin resistant)"
/note="Organ: lung; Vector: pT73D (Pharmacia) with a
modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st
strand cDNA was primed with a Not I - oligo(dT) primer
[5'-TGTTACCAATCTGAAGTGGAGCGCGCAATTTTTTTTTTTT-3'],
double-stranded cDNA was size selected, ligated to Eco RI
adapters (Pharmacia), digested with Not I and cloned into
the Not I and Eco RI sites of a modified pT73 vector
(Pharmacia). Library went through one round of
normalization to a Cot = 5. Library constructed by Bento
Soares and M.Patima Bonaldo. This library was constructed
from the same fetus as the fetal heart library, Soares
fetal heart NBH19W."
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BASE COUNT      110 a      120 c      128 g      93 t
ORIGIN

Query Match      15.2%; Score 451; DB 17; Length 451;
Best Local Similarity 100.0%; Pred. No. 2.6e-227;
Matches 451; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

140 gggcgccgcaaggaccgcgtgcccacgtgcgcacgcgcagagagaagcggaccgtcg 199
|||||
150 1 GCGCCGCCGCAAGGACCCGCTGCGGCACCTGCGCAGCGCGAGAGAGCGGACCGTCGG 60
|||||
160 200 gtctccggcgcccaaacacctgacctgacctgaggtggtgcaacggtgtagccggactc 259
|||||
170 61 GTGCTCCGGCGGCCCAACACACCGCTGACCTGACCTGACAGGTGGTGGCAGCGGTAGCGGGACTC 120
|||||
180 260 gggcgccggtctagctctctccaggttcaaccgggtatctcttcaactgtggagaagg 319
|||||
190 121 GGGCGCGCGCTCTAGCTCTCTCCGAGTTCAACCGGTATCTCTTCAACTGTGGAGAAG 180
|||||
200 320 cgtcagagactcagcagagagacaagttaaagggtgctgcctggacaacatatctct 379
|||||
210 181 CGTTCAGAGACTCATGACGAGACACAAGTTAAAGGTGCTCGCCTGACAAACATATTCCT 240
|||||
220 380 gacacaatgcactgcttaagtgtgggcttaagtgaatgaaatcttactttaagga 439
|||||
230 241 GACCAAGTGCATGCTGCTTAATGTGGGGCTTAAGTGGAAATGATCTTACTTTAAGGA 300
|||||
240 440 aaccgggtcccaagtggtactttctgacctccacaaactggaaaaatcacctcgaagc 499
|||||
250 301 AACCGGCTTCCAAAGTGCTACTTTCTGACCTCCACRACTGGAAAAATACCTCGAAGC 360
|||||
260 500 aatcaaaatattcttcggtccatgaaaggaatagaaactggctgctgcgccccactctgc 559
|||||
270 361 AATCAAAATATTTTCTGGTGCATTGAAAGAAATAGAACTGGCTGTGCGGGCCCACTGTC 420
|||||
280 560 ccagaaacgagatgaaccatgacagt 590
|||||
290 421 CCCAGATACGAGGATGAACCAATGACAGTT 451

RESULT 12
LOCUS      BE867512      812 bp      mRNA      EST      27-SEP-2000
DEFINITION 601443010F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847226 5',
mRNA sequence.
ACCESSION  BE867512
VERSION     BE867512
KEYWORDS   EST.
SOURCE     human.
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1 (bases 1 to 812)
AUTHORS   NIH-MGC http://www.ncbi.nlm.nih.gov/MGC/.
TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL   Unpublished (1999)
COMMENT   Contact: Robert Strausberg, Ph.D.
            Tel: (301) 496-1550
            Email: Robert_Strausberg@nih.gov
            Tissue Procurement: ATCC
            CDNA Library Preparation: Life Technologies, Inc.
            .DNA Sequencing by: The I.M.A.G.E. Consortium (LLNL)
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLCM548 row: c column: 03
            High quality sequence stop: 686.
            Location/Qualifiers
            1. .812
            /organism="Homo sapiens"
            /db_xref="taxon:9606"

FEATURES
source
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/clone="IMAGE:3847226"
/clone_lib="NIH_MGC_65"
/tissue_type="adenocarcinoma"
/lab_host="DH10B (phage-resistant)"
/Note="Organ: colon; Vector: pCMV-SPOR16; Site: 1: NotI;
Site 2: SalI; Cloned unidirectionally. Primer: Oligo dT.
Average insert size 1.8 kb. Library constructed by Life
Technologies."
BASE COUNT      200 a      216 c      220 g      176 t
ORIGIN

Query Match      15.2%; Score 450; DB 136; Length 812;
Best Local Similarity 99.8%; Pred. No. 9e-227;
Matches 570; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

774 gcttcatctgaagcttcaacttaagagagagaaacttcttggctcctcaagcaggag 833
|||||
784 1 GCTTTCATCTGTAAAGCTTCACCTTAAAGAGAGGAAACTTCTTGGTGTCTCAAGCAAGGAG 60
|||||
794 834 atgggctccacagttgggacagctgccatcgctcccatcatctgctgctcgaaggag 893
|||||
804 61 ATGGGCTCCCAAGTTGGGACAGCTGCCATCGCTCCCATCATTTGCTGTCAAGGACGGG 120
|||||
814 894 aaaaacatcacatgaagagagagagatttggctgaagagctgtgtactctccagat 953
|||||
824 121 AAAAGCATCATCTAAGAAGAGAGAGAGATTTGGCTGAAGAGCTGTGTACTCTCCAGAT 180
|||||
834 954 cctggctgctcttgggtggtgtagaatgtccagatgaaagcttcaatccacccatctgt 1013
|||||
844 181 CCTGGTGTCTGC-TTTGTGGTGTAGAAATGTCAGATGAAAGCTTCAATCAACCCATCTGT 239
|||||
854 1014 ggaatgccacattcagaggtaccagaaggaagagagatgccccgtggccttggtggtt 1073
|||||
864 240 GAGAATGCCACCTTTTCAGAGGTACCAAGGAAGGAGAGATGCCCCGTGGCTTGGTGGTT 299
|||||
874 1074 cacatggccccagcatctgtgtgtggacagcaggtaccagcagtggtgagagagttt 1133
|||||
884 300 CACATGGCCCCAGCATCTGTGTGTGGACAGCAGGTACCAAGCATGGATGGAGAGGTTT 359
|||||
894 1134 gggcctgacacccagcacttggctcctgaatgagaaactgtgcctcagtttcaaacctctgc 1193
|||||
904 360 GGGCTGTACACCCAGCACCTTGGTCTGAATGAGAACTGTGCTCAGTTCAACACCTTCGC 419
|||||
914 1194 agccacaagattcaaacaccagctcaacctcatccaccgagacatctccctgtccacc 1253
|||||
924 420 AGCCACAGATTCAAAACCCAGCTCAACCTCAATCCACCCGGACATCTCCCTGTCTCACC 479
|||||
934 1254 agttccgctglaagaagagagggccccaccctcagtggtcccatggttcagggtgaatgc 1313
|||||
944 480 AGTTTCCGCTGTAAAGAGAGAGGGCCCCACCCCTCAGTGTGCCCATGTTTCAGGGTGAATGC 539
|||||
954 1314 ctctcaatgacagctgcgtcccgaggagg 1344
|||||
964 540 CTCTCAAGTACAGCTCGTCCGTCAGGAGGG 570

RESULT 13
AW510825/c
LOCUS      AW510825      499 bp      mRNA      EST      03-MAR-2000
DEFINITION hd40b11.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone
IMAGE:2911965 3', mRNA sequence.
ACCESSION  AW510825
VERSION     AW510825.1 GI:7148903
KEYWORDS   EST.
SOURCE     human.
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1 (bases 1 to 499)
AUTHORS   NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
            National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
            Tumor Gene Index
```

```
JOURNAL COMMENT
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Tel: (301) 496-1550
Email: Robert_Strausberg@nih.gov
This clone is available royalty-free through LNL ; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Seq primer: -40UP from Gibco
High quality sequence stop: 470.

FEATURES
    Location/Qualifiers
        1..499
            /organism="Homo sapiens"
            /db_xref="taxon:9606"
            /clone="IMAGE:2911965"
            /clone_lib="Soares_NFL_T_GBC_S1"
            /lab_host="DH10B"
            /note="Organ: pooled; Vector: pT73D-Pac (Pharmacia) with
a modified polylinker; Site_1: Not I; Site_2: Eco RI;
Equal amounts of plasmid DNA from three normalized
libraries (fetal lung NBHL19W, testis NHT, and B-cell
NCL-GAP-GCB1) were mixed, and ss circles were made in
vitro. Following HAP purification, this DNA was used as
tracer in a subtractive hybridization reaction. The driver
was PCR-amplified cDNAs from pools of 5,000 clones made
from the same 3 libraries. The pools consisted of
I.M.A.G.E. clones 297480-302087, 682632-687239,
726408-728711, and 729096-731399. Subtraction by Bento
Soares and M. Fatima Bonaldo."
        94 a 142 c 126 g 137 t

BASE COUNT
ORIGIN
    Query Match 15.1%; Score 448; DB 91; Length 499;
    Best Local Similarity 99.8%; Pred. No. 1e-225;
    Matches 498; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

y 2460 gaggatggggagcctcagcagagcggcccccacagagagccagccagccagaggtc 2519
|
|
|
b 499 GAGGATGGGGAGCCTCAGCAGAGAGCGGGCCCCACACAGAGAGGCCACAGCCCAAGAGGTC 440
|
|
|
y 2520 agagccagtggaagatctggggagccctgaactcgaaggctgtgtttcttgcacac 2579
|
|
|
b 439 AGAGCCAGTGAAGATCTGGGAGACCTGAACCTCAGAGGCTGTGTCTTCTGCCCCAC 380
|
|
|
y 2580 gcacgacccgtatctgccctcttctgtgtagagctgaagcagcaggtccccagag 2639
|
|
|
b 379 GCACGACCCGTATCTGCCCTCTTCTGTGTAGAGCTGAAGAGCAGCGTCCCCAGGAG 320
|
|
|
y 2640 gcagctcagataggtggtatgagctgtgccgaggttggtgtccacataagcactag 2699
|
|
|
b 319 GCAGCTCAGATAGTGGTATGAGCTGTGCCGAGGCTTGGCTCCACATAGCACATAG 260
|
|
|
y 2700 tctatagatgcctcttagactggtgctctggtgacagccggtggcaggggtgccaac 2759
|
|
|
b 259 TCTATAGATGCTCTTAGACTGCTGTGGTGGCACAGCCGCGGCCAGGAGGTGCCACAC 200
|
|
|
y 2760 ggaagcagcagatgaactaatttatttcaaggcagtttttaagaagctcttgaaca 2819
|
|
|
b 199 GGAAGCAAGCAGATGAACCTAATTTTCATTAAGGCGAGTTTAAAGAGTCAATGAAACA 140
|
|
|
y 2820 gcgctggcacccttctcttaactcagcaaaagtatttccctgcacacagagacagcag 2879
|
|
|
b 139 GACGGGGGACCTTTCCTCTANTCCAGCAAAAGTATTCCCTGCACACACAGACAGCAG 80
|
|
|
y 2880 agtaacagatcagtggtgttaagtgtccgagacttaacgaaatagtatttcagtgcga 2939
|
|
|
b 79 AGTAACAGATCAGTGGGCTTAAGTGTCCGAGACTTAACGAAATAGTATTTCAGTGA 20
|
|
|
y 2940 ataaagattgatttgcga 2958
|
|
|
b 19 ATAAAGATTGAGTTGCA 1

RESULT 14
```



```
Query Match      14.8%; Score 438; DB 106; Length 612;
Best Local Similarity 100.0%; Pred. No. 2e-220;
Matches 438; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

>Y 1041 ggaagcagatgccccgctgtgtgttcacatggccccagacatctgtcttg 1100
>D 108 GGAAGGAGATGCCCCGCTGTGTGTTCACATGGCCCCAGCATCTGTCTTG 167
>Y 1101 gacagcagttaccagcagtgatgagaggtttggcctgacaccagcacttgctcg 1160
>D 168 GACAGCAGGTACCAGCAGTGTGATGAGAGGTTTGGGCTGACACCCAGCAGCTTGCTCTG 227
>Y 1161 aatgagaactgtcctcagttcacaaccttgcagcaccacagattcaaccagctcaac 1220
>D 228 AATGAGAACTGTGCTCAGTTTCAACACCTTCGACGCCACAAGATTCAACCCAGCTCAAC 287
>Y 1221 ctcacccaccggacatctccccctgtccaccagtttcccgctgaagaaggagggcccc 1280
>D 288 CTCATCCACCCGGACATCTCCCCCTGTCTACCAAGTTTCCGCTGTGAAGAGGGCCCC 347
>Y 1281 accctcagtgcccatgttcaggtgaatgcctccctcaagttaccagctccgtcccccagg 1340
>D 348 ACCCTCAGTGTGCCATGTGTTCAAGGTGAATGCCCTCTCAAGTACCAGCTCCGTCCTCAGG 407
>Y 1341 agggagtgccagaggtgacattattctgacatctcctgaggaattcatagttgagcgc 1400
>D 408 AGGGAGTGGCAGAGGATGCCATTATTCTTGAATCTGAGGAATTCATAGTTGAGGCG 467
>Y 1401 ctgcagcttcccaactccacagagcgtgcagaggtacagagagtcgcagagcgcgc 1460
>D 468 CTGCAGCTTCCCACTCCAGCAGCGGTGAGGAGTACAGGAGGTGCGCAGGACGCG 527
>Y 1461 ccagcccccagcagagaa 1478
>D 528 CCAGCCCCCAGCAGAGAA 545

RESULT 17
LOCUS      AA455121      493 bp      mRNA      EST      06-JUN-1997
DEFINITION zx78c04.sl Soares ovary tumor N6HOT Homo sapiens cDNA clone
            IMAGE:809862 3', similar to SW_YK59_YEAST P36159 HYPOTHETICAL 96.8
            KD PROTEIN IN SIS2-WTD1 INTERGENIC REGION. ;, mRNA sequence.
ACCESSION  AA455121
VERSION     AA455121.1  GI:2177897
KEYWORDS   EST.
SOURCE     human.
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
            Hillier, L., Allen, M., Bowles, L., Dubuque, T., Geisel, G., Jost, S.,
            Kucaba, T., Lacy, M., Le, N., Lennon, G., Marra, M., Martin, J., Moore, B.,
            Schellenberg, K., Steptoe, M., Tan, F., Theising, B., White, Y., Wyllie
            , T., Waterston, R., and Wilson, R.
            WashU-Merck EST Project 1997
            Contact: Wilton RK
            Washington University School of Medicine
            444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
            Tel: 314 286 1800
            Fax: 314 286 1810
            Email: est@watson.wustl.edu
            This clone is available royalty-free through LNL; contact the
            IMAGE Consortium (info@image.llnl.gov) for further information.
            Possible reversed clone: similarity on wrong strand.
            Seq primer: -41m3 fwd. ET from Amersham
            High quality sequence stop: 447.
            Location/Qualifiers
            1. .493
```

```
/organism="Homo sapiens"
/db_xref="CDB:6039680"
/db_xref="taxon:9606"
/clone_lib="Soares ovary tumor N6HOT"
/sex="Female"
/tissue_type="ovarian tumor"
/lab_host="DH10B (ampicillin resistant)"
/notes="Organ: ovary; Vector: p773D (Pharmacia) with a
modified polylinker; Site: 1: Not 1; Site 2: Eco RI; 1st
strand cDNA was primed with a Not I - oligo(dT) primer [5'
TGTTACCAATCTGAAGTGGAGGCGCGCGGCTTTTTTTTTTTT 3'],
double-stranded cDNA was size selected, ligated to Eco RI
adapters (Pharmacia), digested with Not I and cloned into
the Not I and Eco RI sites of a modified p773 vector
(Pharmacia). Library constructed by Bento Soares and
M.Fatima Bonaldo."
BASE COUNT      131 a      128 c      130 g      104 t
ORIGIN

Query Match      14.7%; Score 436; DB 7; Length 493;
Best Local Similarity 100.0%; Pred. No. 2.3e-219;
Matches 436; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

>Y 252 cgggactcggcgccgctcagctcttcaggttccaggttcaaccggtatctctcaactgt 311
>D 58 CGGGACTCGGCGCGCGCTCTACGTCTTCCGAGTTCAACCGGTATCTCTTCAACGT 117
>Y 312 ggagaagcgcttcagagactcatgcaggagcacaagttaaaggttgctcgccgtgacaac 371
>D 118 GGAGAGCGGTTTCAGAGACTCATGCAGGAGCACAAGTTTAAGGTTGCTCGCTGGACAC 177
>Y 372 atattcctgacacgaatgcactggtctaatgttgggggttaagtgggaatgattttact 431
>D 178 ATATTCTTGACACGAATGCAGTGTCTAATGTGTTGGGGCTTAAGTGAATGATTCTTACT 237
>Y 432 ttaaggaacacgggcttccaaagtgtactttctgacctcccaactggaataaac 491
>D 238 TTAAGGAACACGGGCTTCCAAAGTGTGTACTTTCTGGACCTCCACAACTGGAAAAATAC 297
>Y 492 ctcaagcaatacaaaatatttctggttcattgaaaggaataagactggtgtcgggccc 551
>D 298 CTCGAAGCAATCAAAATATTTCGTCTCAATGAAGGAATAGAACTGGCTGTGGGCC 357
>Y 552 cactctgccccagaatacagagatgaaccatgcagtttaccagatccccatcacagt 611
>D 358 CACTCTGCCCCAGAAATACGAGATGAAACCATGACAGTTTACAGATCCCCATACAGT 417
>Y 612 gaacagagagggggaagcaccacacacattggcagagtcagaaaggccctcagaggctc 671
>D 418 GAACAGAGAGGGGAAAGCACCACCAACCATGGCAGAGTCCAGAAAGGCCCTCTCAGCAGGCTC 477
>Y 672 agtccagagcgatctt 687
>D 478 AGTCGAGAGCGATCTT 493

RESULT 18
LOCUS      AW592601/c      478 bp      mRNA      EST      22-MAR-2000
DEFINITION hf45a09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone
            IMAGE:2934808 3', mRNA sequence.
ACCESSION  AW592601
VERSION     AW592601.1  GI:7279786
KEYWORDS   EST.
SOURCE     human.
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
            1 (bases 1 to 478)
            NCI-CCAP http://www.ncbi.nlm.nih.gov/ncicgap.
            National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
            TITLE
```


TITLE
JOURNAL
MEDLINE
COMMENT

Dimke D., Feng D.-F., Ferrie A., Fischer C., Hastings G.A., He W.W., Hu J.S., Greene J.M., Gruber J., Hudson P., Kim A.K., Kozak D.L., Kunsch C., Meissner P.S., Olsen H., Raymond L., Wei Y.F., Wing J., Xu C., Yu G.L., Ruben S.M., Dillion P.J., Fannon M.R., Rosen C.A., Haseltine W.A., Fields C., Fraser C.M. and Venter J.C.

Initial assessment of human gene diversity and expression patterns based upon 83 million nucleotides of cDNA sequence

Nature 377 (6547 Suppl), 3-174 (1995)

96026280

Other ESTs: THC175624

Contact: Kerlavage, AR

Bioinformatics

The Institute for Genomic Research

9712 Medical Center Drive, Rockville, MD 20850 USA

Tel: 3018699056

Fax: 3018699423

Email: arkerlav@tigr.org

For clone availability, additional sequence and expression information related to this EST, please check the TIGR Human Gene Index (<http://www.tigr.org/tldb/hgi/hgi.html>)

Seq primer: M3 Reverse.

FEATURES

source

1. .431

/organism="Homo sapiens"

/db_xref="taxon:9606"

/db_xref="taxon:9606"

/clone_lib="Jurkat T-cells v"

/cell_type="T-lymphocyte"

/note="Vector: pBluescript SK-; Site_1: EcoRI; Site_2: XhoI"

98 a 131 c 117 g 84 t 1 others

BASE COUNT

ORIGIN

Query Match 12.8%; Score 380; DB 5; Length 431;

Best Local Similarity 99.8%; Pred. No. 1.1e-189;

Matches 430; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

1048 cagatgccccgctgctggtgtacatgccccagcatctgtgtgtggacagca 1107

b 1 CAGATGCCCGCGCTGCTGTGTTCATGGCCCCAGCATCTGTGTGGACAGCA 60

1108 ggtaccagcaatgagatgagaggttgctgctgacacccagcaactgtctgaatgaga 1167

b 61 GTACACAGTGGATGAGAGGTTTGGCCCTGACCCAGCAGCTGTGCTGAATGAGA 120

1168 actgtgctcagttcacaccttcgagccacaaagattcaaccagctcaacctcatcc 1227

b 121 ACTGTGCTCANTTCACAACTTCGACGCCACAAGATTCAACCCAGCTCAACCTCATCC 180

1228 accggagacattccccctgtccacagtttcggtgtaagagagggccccacccctca 1287

b 181 ACCCGGACATCTCCCTCCTGTCCACAGTTTCGGTGTGAAGAGGGGCCCCACCTCA 240

1288 gtgtgccccatggttcaggtgaatccctcctcaagtaccagctcggtccagagggagt 1347

b 241 GTGTCCCATGTTTCAGGCTGAATGCCCTCAAGTACAGCTCCGTCGCCAGGGGAGT 300

1348 ggcagagggatgccattattacttgcaatcctgaggaattcattagtgagcgctgcagc 1407

b 301 GGCAGAGGGATGCCATTATTACTTCAATCTTCAGGAATTCAATGTGAGGGCTGCAGC 360

1408 ttcccaattccagcagagcgtgcaggagtagcagagagtgctgcagagcggccagccc 1467

b 361 TTCCCAACTTCCAGAGAGCGTGCAGGAGTACAGGAGGAGTGCAGGAGGAGTGCAGGCC 420

1468 cagcagagaaa 1478

b 421 CAGCAGAGAAA 431

RESULT 27

BE744197

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

BE744197 949 bp mRNA EST 15-SEP-2000

601577168F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3838121 5', mRNA sequence.

BE744197

BE744197.1 GI:10158189

EST.

human.

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 949)

NIH-MGC <http://www.ncbi.nlm.nih.gov/MGC/>.

National Institutes of Health, Mammalian Gene Collection (MGC)

Unpublished (1999)

Contact: Robert Strausberg, Ph.D.

Tel: (301) 496-1550

Email: Robert.Strausberg@nih.gov

Tissue Procurement: DCTD/DTF

cDNA Library Preparation: Ling Hong/Rubin Laboratory

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov

Plate: LCM524 row: g column: 18

High quality sequence stop: 668.

Location/Qualifiers

1. .949

/organism="Homo sapiens"

/db_xref="taxon:9606"

/clone="IMAGE:3838121"

/clone_lib="NIH_MGC_9"

/tissue_type="adenocarcinoma cell line"

/lab_host="DH10B (phage-resistant)"

/note="Organ: ovary; Vector: pOTB7; Site_1: XhoI; Site_2: EcoRI; cDNA made by oligo-dr priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCAGAG(G). Size-selected >500bp for 'average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies)."

BASE COUNT 225 a 263 c 281 g 179 t 1 others

ORIGIN

Query Match 12.6%; Score 373; DB 135; Length 949;

Best Local Similarity 99.7%; Pred. No. 5.7e-186;

Matches 613; Conservative 0; Mismatches 0; Indels 2; Gaps 2;

Qy 722 tccacatggttagccagagaagaggggtcaggagctctccctggtcgtagctttcat 781

Db 1 TCCACATGCTTACCCAGAGAAGAGGGTCAGGACTCTCCCTGGTCGTAGCTTTTCA 60

Qy 782 ctgtaagcttcactaaagagagaaactcttggctcaaaagcaagagagatgggct 841

Db 61 CTGTAAGCTTCACITTAAGAGAGGAAACTTCTTGGTGTCAAGCAAGAGAGATGGGCT 120

Qy 842 cccagttgggagcagctgccatcgctcccatcattgctgctcgaaggagcggaagatc 901

Db 121 CCCAGTTGGGACAGTCCATCGCTCCCATCATCTGCTGTCAAGGACGGGAAAGCAT 180

Qy 902 cactcatgaagagagagagatttggctgaagagctgtgtactctccagatccctgggctc 961

Db 181 CACTCATGAAGAAAGAGAGA-TTTGGCTGAAGAGCTGTGTACTCTCCAGATCCCTGGTGC 239

Qy 962 tgcctttgtgtgtagaattccagatgaagcttcattcaaccatctgtgagaatgc 1021

Db 240 TGC-TTTGTGTGTGTAGTAATGTCCAGATGAAGCTTCAATCAACCATCTGTGGAATGC 298

Qy 1022 caccttcagaggttaccaggaagagcagatgcccccgtggccttgggttgcacatggc 1081

```
299  CACCTTTACAGGTACCAAGAAAGCAGATGCCCCCGTGGCCCTTGGTGGTTACATGGC 358
1082  ccagcatctgtgctgttgacagcaggtaccagcagtgatggagaggtttgggacctga 1141
359  CCCAGCATCTGTCTGTGGACAGCAGGTACCAAGCAGTGGATGGAGAGGTTTGGGCTGA 418
1142  caccagcacttgctctgaatgagaactgtgctcagttcacaaactctgcagcacaa 1201
419  CACCCAGCAGCTTGGTCTGAATGAGAAGTGTGCTCAGTTACAAAGCTTCGCAGCCACA 478
1202  gattcaaacccagctcaactcaaccagagacattctcccccctctcaccagttccg 1261
479  GATTCAAACCCAGCTCAACTCACTCAACCCGACATCTTCCCCCTGCTCACCAGTTCCG 538
1262  ctgtaagaaggaggccccaccctcagtgccccagtggttcagggtgaatgcctctcaa 1321
539  CTGTAAGAAGGAGGAGGCCACCCCTCAGTGTGCCATGTTTCAGGTTGAATGCTCCTCAA 598
1322  gtaccagctccgtcc 1336
599  GTACCAGCTCCGTC 613

RESULT 28
LOCUS      BE883616          370 bp      mRNA          EST          27-SEP-2000
DEFINITION 601508091F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3909527 5',
            mRNA sequence.
ACCESSION  BE883616
VERSION    BE883616.1 GI:10332392
KEYWORDS   EST.
SOURCE     human.
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1 (bases 1 to 370)
AUTHORS   NIH-MGC http://www.ncbi.nlm.nih.gov/MGC/.
TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL   Unpublished (1999)
COMMENT   Contact: Robert Strausberg, Ph.D.
            Tel: (301) 496-1550
            Email: Robert.Strausberg@nih.gov
            Tissue Procurement: ATCC
            cDNA Library Preparation: Life Technologies, Inc.
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Incyte Genomics, Inc.
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLCW710 row: f column: 24
            High quality sequence stop: 370.
            Location/Qualifiers
                1..370
                /organism="Homo sapiens"
                /db_xref="taxon:9606"
                /clone="IMAGE:3909527"
                /clone_lib="NIH_MGC_71"
                /tissue_type="leiomyosarcoma"
                /lab_host="DH10B (phage-resistant)"
                /note="Organ: uterus; Vector: pCMV-SPORT6; Site 1: NotI;
                Site 2: SalI; Cloned unidirectionally. Primer: Oligo dT.
                Average insert size 2.1 kb."
                Average insert size 2.1 kb.
                94 a 100 c 106 g 70 t

BASE COUNT 94 a 100 c 106 g 70 t
ORIGIN
Query Match 12.5%; Score 370; DB 137; Length 370;
Best Local Similarity 100.0%; Pred. No. 2.1e-184;
Matches 370; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

2032  tggctattccggggacaccatccctcgaggtctgtgctcgatggggaagatgccca 2091
1  TGGTCTATTCGGGGACACCATGCCCTGCGAGCTCTGTGTCGGATGGGGAAAGATGCCA 60
```

```
2092  cctctctgatacatgaagccaccctgggaagatggtttggaaagaaagcagtggaagaa 2151
61  CCCTCTCTATACATGAAGCCACCCCTGGAAGATGGTTGGAAGAGAAAGCAGTGGAAA 120
2152  cacacagacaacagtcaccaagccatcagctgggagtgatcggaacgcgaggttcatta 2211
121  CACACAGCAACAACGTCCTCAAGCCATCAGCGTGGGATGGGATGAACGCGGAGTTCATTA 180
2212  tgctgaaccacttcagcagcgctatgccaaagttccccctcttcagccccaaacttcag 2271
181  TCGTGAACCACTTCAGCCAGCGCTATGCCAAGTCCCTCTTCAGGCCCAACTTCAGCG 240
2272  aagaagtgggagttgctcttgaccacatgaaggtctgtcttgagacatttcacaacatgc 2331
241  AGAAAGTGGGAGTTGCTTTGACCATGAAGTCTGCTTTGGAGACTTTCACAACATGC 300
2332  caaagctgattccccactgaagccctgttctggtggacatcgagagatggaggagc 2391
301  CCAAGCTGATTCCTCCACATGAAGCCCTGTTTTCGTCGACATCGAGGAGATGGAGGAGC 360
2392  gcagggagaa 2401
361  GCAGGGAGAA 370

RESULT 29
LOCUS      BE900936          745 bp      mRNA          EST          29-SEP-2000
DEFINITION 601674206F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3957240 5',
            mRNA sequence.
ACCESSION  BE900936
VERSION    BE900936.1 GI:10389609
KEYWORDS   EST.
SOURCE     human.
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1 (bases 1 to 745)
AUTHORS   NIH-MGC http://www.ncbi.nlm.nih.gov/MGC/.
TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL   Unpublished (1999)
COMMENT   Contact: Robert Strausberg, Ph.D.
            Tel: (301) 496-1550
            Email: Robert.Strausberg@nih.gov
            Tissue Procurement: ATCC
            cDNA Library Preparation: Ling Hong/Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Incyte Genomics, Inc.
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov
            Plate: LLCM834 row: k column: 01
            High quality sequence stop: 734.
            Location/Qualifiers
                1..745
                /organism="Homo sapiens"
                /db_xref="taxon:9606"
                /clone="IMAGE:3957240"
                /clone_lib="NIH_MGC_21"
                /tissue_type="choriocarcinoma"
                /lab_host="DH10B (phage-resistant)"
                /note="Organ: placenta; Vector: pOTB7; Site 1: XhoI;
                Site 2: EcoRI; cDNA made by oligo-dT priming.
                Directionally cloned into EcoRI/XhoI sites using the
                following 5' adaptor: GGCACGAG(G). Size-selected >500bp
                for average insert size 1.8kb. Library constructed by
                Ling Hong in the laboratory of Gerald M. Rubin (University
                of California, Berkeley) using ZAP-cDNA synthesis kit
                (Stratagene) and Superscript II RT (Life Technologies)."
                Average insert size 2.1 kb.
                165 a 206 c 215 g 159 t

BASE COUNT 165 a 206 c 215 g 159 t
ORIGIN
```

```

Query Match      12.4%  Score 368;  DB 137;  Length 745;
Best Local Similarity 100.0%;  Pred. No. 2.5e-183;
Matches 368;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;

>y 1678 ttgtgtccacactgacgcagatcaccacacgggttgcgaagtattctgtgcagagag 1737
|||||
>b 104 TTGTGTCCACCTGCACGAGATCACCACACGGGTTGCCAAGTATCTGTGTGCAGAGAG 163
|||||
>y 1738 aacgcgcttgatcttgggaagcgcgttcaaccttctgtgtgtgtggtgcccccaacc 1797
|||||
>b 164 AACGGCGCTTGGCATCTTTGGGAAAGCCCTTCACCCCTTGTGTGTGTGTGCCCCAACCC 223
|||||
>y 1798 agctcaagcctggtccagcagtagtaccacacagtcacagtcagtcagtcagtcagtcag 1857
|||||
>b 224 ACCTCAAGCCCTGGCTCCAGCAGTACCACACAGTGCAGGAGGTCCTGCACCATCA 283
|||||
>y 1858 gtagtattctccaaatccttcaggagggctgagatctccagtcctgcagtcagtcagtcag 1917
|||||
>b 284 GTATGATTCCTCCAAATGCTTCAGGAGGGCTGAGATCTCCAGTCTCGCAGTGGAAA 343
|||||
>y 1918 gattgatcagtcgctgtgtgcgaacatgtgatttggagaggttccagacctgtctgtgtgc 1977
|||||
>b 344 GATTGATCAGTTCGCTGTGTGCGAATGATGATTTGGAGAGTTTCAGACCTGTCTGGTGC 403
|||||
>y 1978 ggcactgaagcatcgctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 2037
|||||
>b 404 GCACGTGACAGCATCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 463
|||||
>y 2038 attccggg 2045
|||||
>b 464 ATTCCGGG 471
|||||

RESULT 30
LOCUS      R87541      518 bp      mRNA      EST      16-AUG-1995
DEFINITION ym9b04.r1 Soares adult brain N2b4HB55Y Homo sapiens cDNA clone
IMAGE:166063 5', mRNA sequence.
ACCESSION  R87541
VERSION    R87541.1  GI:946354
SYNOPSIS   EST.
SOURCE     human.
ORGANISM   Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1 (bases 1 to 518)
AUTHORS   Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M., Holman
,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M., Parsons,J.,
Rifkin,L., Rohlffing,T., Soares,M., Tan,F., Trevaskis,E., Waterston
,R., Williamson,A., Wohldmann,P. and Wilson,R.
TITLE     The WashU-Merck EST Project
JOURNAL   Unpublished (1995)
COMMENT   Contact: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
Insert Size: 2215
High quality sequence stops: 331 Source: IMAGE Consortium, LLNL
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Insert Length: 2215 Std Error: 0.00
Seq primer: M13RP1
High quality sequence stop: 331.
Location/Qualifiers
1. 518
/organism="Homo sapiens"
/db_xref="GDB:586750"
/db_xref="taxon:9606"
/clone="IMAGE:166063"
/clone_lib="Soares adult brain N2b4HB55Y"
/sex="Male"
FEATURES
source

```

```

/dev_stage="55-year old"
/lab_host="DH10B (ampicillin resistant)"
/note="Organ: brain; Vector: pT7T3D (Pharmacia) with a
modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st
strand cDNA was primed with a Not I - oligo(dT) primer [5'
TGTTACCAATCTGAAGTGGAGCGCGCGCTTTTTTTTTTTTTTTT 3'],
double-stranded cDNA was size selected, ligated to Eco RI
adapters (Pharmacia), digested with Not I and cloned into
the Not I and Eco RI sites of a modified pT7T3 vector
(Pharmacia). Library went through one round of
normalization to a Cot = 53. Library constructed by Bento
Soares and M.Fatima Bonaldo. The adult brain RNA was
provided by Dr. Donald H. Gilden. Tissue was acquired
17-18 hours after death which occurred in consequence of a
ruptured aortic aneurysm. RNA was prepared from a pool of
tissues representing the following areas of the brain:
frontal, parietal, temporal and occipital cortex from the
left and right hemispheres, subcortical white matter,
basal ganglia, thalamus, cerebellum, midbrain, pons and
medulla."
BASE COUNT      114 a      136 c      137 g      125 t      6 others
ORIGIN

Query Match      11.9%  Score 352;  DB 144;  Length 518;
Best Local Similarity 100.0%;  Pred. No. 7.3e-175;
Matches 352;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;

>y 940 gtactctccagatcctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 999
|||||
>b 2 GTACTCTCCAGATCCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 61
|||||
>y 1000 ttcaaccatctgtgagaaatgccaccttcagagaggtacaaaggaaagcagatgccccg 1059
|||||
>b 62 TTCAACCCATCTGTGAGAATGCCACCTTTCAGAGGTACCAAGAAAGGAGATGCCCGG 121
|||||
>y 1060 tggccttggtgttcacatgccccagcatctgtctgtgtgtgtgtgtgtgtgtgtgtgtgt 1119
|||||
>b 122 TGGCCTTGGTGTTCACATGCCCCCAGCATCTGTCTGTGTGTGTGTGTGTGTGTGTGTGTGT 181
|||||
>y 1120 ggatggagaggtttgggctgacacccagcattgtgtgtgtgtgtgtgtgtgtgtgtgtgt 1179
|||||
>b 182 GGATGGAGAGGTTTGGGCTGTGACACCCAGCATCTGTGTGTGTGTGTGTGTGTGTGTGTGT 241
|||||
>y 1180 ttcaaaccttgcgcgcacagattcaaacccagctcaacctcatccaccggacatct 1239
|||||
>b 242 TTCAACAGCTTTCGACAGCAGATTTCAACCCAGCTCAACCTCATCCACCGGACATCT 301
|||||
>y 1240 tccccctgctcaccagtttccgctgtgagaggggccccaccctcagtg 1291
|||||
>b 302 TCCCCCTGCTCACCAGTTTCCGCTGTAAAGAGGGGGCCCCCACCCTCAGTGT 353
|||||

RESULT 31
LOCUS      W27286/c      855 bp      mRNA      EST      08-MAY-1996
DEFINITION 28h1 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
, mRNA sequence.
ACCESSION  W27286
VERSION    W27286.1  GI:1307081
KEYWORDS   EST.
SOURCE     human.
ORGANISM   Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1 (bases 1 to 855)
AUTHORS   Macke,J., Smallwood,P. and Nathans,J.
TITLE     Adult Human Retina cDNA
JOURNAL   Unpublished (1996)
COMMENT   Contact: Dr. Jeremy Nathans
Dr. Jeremy Nathans, Dept. of Molecular Biology and Genetics
Johns Hopkins School of Medicine
725 North Wolfe Street, Baltimore, MD 21205

```

Tel: 410 955 4678
Fax: 410 614 0827

Email: jeremy_nathans@mail.bs.jhu.edu
Clones from this library are NOT available.
PCR PRIMERS

FORWARD: CTTTTCAGCAAGTTCAGCTGGTTAAGT

BACKWARD: GAGTGGCTATGATGATTCTTCCAGGGTAA

Seq primer: GGGTAAAGCAAAAGAAAT.

FEATURES

Location/Qualifiers

source

1..855
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_lib="Human retina cDNA randomly primed sublibrary"
/sex="mixed (males and females)"
/tissue_type="retina"
/dev_stage="adult"
/lab_host="E. coli strain K802"
/note="organ: eye; Vector: lambda gt10; Site_1: EcoRI;
Site_2: EcoRI; The library used for sequencing was a
sublibrary derived from a human retina cDNA library.
Inserts from retina cDNA library DNA were isolated,
randomly primed, PCR amplified, size-selected, and cloned
into lambda gt10. Individual plaques were arrayed and
used as templates for PCR amplification, and these PCR
products were used for sequencing."

BASE COUNT 130 a 142 c 162 g 150 t 271 others

ORIGIN

Query Match 11.9%; Score 351; DB 146; Length 855;
Best Local Similarity 100.0%; Pred. No. 2.6e-174;
Matches 351; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

995 cttcattcaaccatctgtgagaatgccaccttccagaggtaccaggaaggcagatgc 1054

429 CTTCAATCAACCCATCTGTGAGAATGCCACCTTTCAGAGGTACCAAGGAAGCAGATGC 370

1055 ccccggtgacctgtgtttcacatgccccagcatctgtctgtgtgacagcaggtacca 1114

369 CCCCCTGGGCTTGGTGGTTCACATGSCCCAGCATCTGCTTGTGGACAGCAGGTACCA 310

1115 gcagttggagagaggttgggctgacacccagcacttgctgaatgagaaactgtgc 1174

309 GCAGTGGATGGAGAGGTTGGGCTGCACACCCAGCAGCTGGTCTGAATGAGAACTGTGC 250

1175 ctgagttcaaaccttcgagccacagattcaaacccagctcaacctcatccaccgga 1234

249 CTCAGTTCACAACTTCGCGAGCCACAAAGATTCAACCCAGCTCAACCTCATCCACCCGGA 190

1235 catctccccctctcacacagtttcgctgtgaagaaggaggccccaccctcagttgccc 1294

189 CACTTCCCTCTCTCACCAGTTTCGCGTGTGAAGAAGAGGGGCCCCACCTCAGTGTGCC 130

1295 catggttcaggggtgaatgctctcagttaccagctccgtccacagagagga 1345

129 CATGGTTCAGGTTGATGCTCTCTCAAGTACCAGCTCCGTCCTCCAGAGGGA 79

RESULT 32

BE92893

LOCUS

BE92893 790 bp mRNA EST 29-SEP-2000

601435738F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3920792 5'

DEFINITION

mRNA sequence.

ACCESSION

BE92893

VERSION

BE92893.1

KEYWORDS

EST

SOURCE

human.

ORGANISM

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 790)

NIH-MGC http://www.ncbi.nlm.nih.gov/MGC/.

National Institutes of Health, Mammalian Gene Collection (MGC)

JOURNAL

COMMENT

Unpublished (1999)

Contact: Robert Strausberg, Ph.D.

Tel: (301) 496-1550

Email: Robert_Strausberg@nih.gov

Tissue Procurement: ATCC/DCTD/DTF

cDNA Library Preparation: Life Technologies, Inc.

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:

http://image.llnl.gov

Plate: LLCM739 row: 1 column: 09

High quality sequence stop: 662.

FEATURES

source

Location/Qualifiers

1..790

/organism="Homo sapiens"

/db_xref="taxon:9606"

/clone="IMAGE:3920792"

/clone_lib="NIH_MGC_72"

/tissue_type="melanotic melanoma"

/lab_host="DH10B (phage-resistant)"

/note="organ: skin; Vector: pCMV-SPORT6; Site_1: NotI;

Site_2: SalI; Cloned unidirectionally. Primer: Oligo di.

Average insert size 2 kb. Library constructed by Life

Technologies."

BASE COUNT 185 a 221 c 220 g 164 t

ORIGIN

Query Match 11.7%; Score 347; DB 137; Length 790;

Best Local Similarity 100.0%; Pred. No. 3.4e-172;

Matches 347; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 953 tcttggtgctgttttgggtgtagaatgtccagatgaaagcttcattcaaccatctg 1012

Db 1 TCTTGCTGCTGCTTTTGGTGGTAGAATGCCAGATGAAGCTTCATTCAACCCATCG 60

QY 1013 tgagaatgccactttcagaggtaccaggaaggcagatgcccggtggccttggtgt 1072

Db 61 TGAGAAATGCCACCTTTCAGAGGTACCAAGGAAGCAGATGCCCGGCGCTTGGTGTG 120

QY 1073 tcacatggccccagcatctgtctgtggacagcaggtaccagcagtgatggagaggtt 1132

Db 121 TCACATGGCCCCAGCATCTGCTGTGTGGACAGCAGGTACACAGCAGTGCATGGAGAGGT 180

QY 1133 tgggcttgacaccccgacacttggttccctgaatgagaactgtgctcagttcacacacttg 1192

Db 181 TGGGCTGCACACCCAGCAGCTTGGTCTGTAATGAGAAGTGTGCTCAGTTTCACAACTTCG 240

QY 1193 cagccacaagattcaaacccagctcaacctcaacctccacccggacatctcccccctgctcac 1252

Db 241 CAGCCACAAGATTCAAAACCCAGCTCAACCTCATCCACCCGGACATCTTCCCCCTGCTCAC 300

QY 1253 cagttccgctgtaagaaggaggccccaccctcagtggtgccatgg 1299

Db 301 CAGTTCCGCTGTAGAGAGGAGGGCCCCACCCCTCAGTGTGCCCATGG 347

RESULT 33

AA811170/c

LOCUS

AA811170

DEFINITION

ob42c03.s1 NCI_CGAP_GCBI Homo sapiens cDNA clone IMAGE:1334020 3'

mRNA sequence.

ACCESSION

AA811170

VERSION

AA811170.1

KEYWORDS

EST

SOURCE

human.

ORGANISM

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 396)

NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.

National Cancer Institute, Cancer Genome Anatomy Project (CGAP),

JOURNAL COMMENT
 Tumor Gene Index
 Unpublished (1997)
 Contact: Robert Strausberg, Ph.D.
 Tel: (301) 496-1550
 Email: Robert.Strausberg@nih.gov
 Tissue Procurement: Louis M. Staudt, M.D., Ph.D., David Allman, Ph.D., Gerald Marti, M.D.
 CDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima Bonaldo, Ph.D.
 CDNA Library Arrayed by: Greg Lennon, Ph.D.
 DNA sequencing by: Washington University Genome Sequencing Center
 Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www-bio.llnl.gov/hrp/image/image.html
 Insert length: 885 Std Error: 0.00
 Seq primer: -40ml3 fwd. ET from Amersham
 High quality sequence stop: 377.
 Location/Qualifiers
 1. .396
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="IMAGE:1334020"
 /clone_lib="NCI-CGAP_GCB1"
 /tissue_type="germinal center B cell"
 /lab_host="DH10B"
 /note="vector: p7T3D-Pac (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA was prepared from human tonsillar cells enriched for germinal center B cells by flow sorting (CD20+, Igd-), provided by Dr. Louis M. Staudt (NCI), Dr. David Allman (NCI) and Dr. Gerald Marti (CBER). cDNA synthesis was primed with a Not I - oligo(dT) primer
 [5'-TGTTACATCTCAATGGAGCGCGCTCATTTTTTTTTTTT-3'
]. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified p7T3 vector. Library went through one round of normalization, and was constructed by Bento Soares and M. Fatima Bonaldo."
 81 a 102 c 97 g 116 t

FEATURES
 source
 1. .396
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="IMAGE:1334020"
 /clone_lib="NCI-CGAP_GCB1"
 /tissue_type="germinal center B cell"
 /lab_host="DH10B"
 /note="vector: p7T3D-Pac (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA was prepared from human tonsillar cells enriched for germinal center B cells by flow sorting (CD20+, Igd-), provided by Dr. Louis M. Staudt (NCI), Dr. David Allman (NCI) and Dr. Gerald Marti (CBER). cDNA synthesis was primed with a Not I - oligo(dT) primer
 [5'-TGTTACATCTCAATGGAGCGCGCTCATTTTTTTTTTTT-3'
]. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified p7T3 vector. Library went through one round of normalization, and was constructed by Bento Soares and M. Fatima Bonaldo."
 81 a 102 c 97 g 116 t

BASE COUNT
 81 a 102 c 97 g 116 t

ORIGIN
 Query Match 11.6%; Score 343; DB 12; Length 396;
 Best Local Similarity 100.0%; Pred. No. 4.2e-170; Mismatches 0; Indels 0; Gaps 0;
 Matches 343; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

2616 ctgaagagcaggtctcccccaggagcagctcagataggtggtatggagctgtgccgagg 2675
 |||||
 2635 CTGAAGAGCAGCGTCCCCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 2696
 |||||
 2676 cttgggtccacataagcactatgctatagatgcctctttaggactggtgctggcacag 2735
 |||||
 2695 CTGGGCTCCACATAAGCAGTCTCTATAGATGCTCTTAGGACTGTGTGCTGGCACAG 2736
 |||||
 2736 ccgaggccagaggtccacacggaagcagcagatgaacttaattcattcaagca 2795
 |||||
 2735 CCGGGGCGCAGAGGCTGCCACAGGAAGCAGAGAGATGAATATTTCATTCAAGCA 176
 |||||
 2796 gttttaagaagtcttggaaacagacgagcagccttctccttaatacagcaagtat 2855
 |||||
 175 GTTTTAAAGAAGTCTTGGAAACAGACGCGGACCTTTCCTCTAATCCAGCAAGTAT 116
 |||||
 2856 tcctgtcacacagacagacagagtaacaggtatcagtgggtctaatgttccagactt 2915
 |||||
 115 TCCCTGCACACAGAGACAGAGAGTAAACAGGATCAGTGGGTCTAAGTGTCCGAGACT 56
 |||||
 2916 aacgaaaaatatttcagctgcaataaagattagttgcaa 2958
 |||||
 55 AACGAAAAATATTTCAGCTGCAATAAAGATTGAGTTGGCAA 13
 |||||

RESULT 34
 AA634909

LOCUS AA634909 446 bp mRNA EST 21-OCT-1997
DEFINITION ab27h02.r1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:842067 5' similar to SW:YK59-YEAST P36159 HYPOTHETICAL 96.8 KD PROTEIN IN SIS-MTD1 INTERGENIC REGION. ; mRNA sequence.

ACCESSION AA634909
VERSION AA634909.1 GI:2598123
KEYWORDS EST.
SOURCE human.

ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 1 (bases 1 to 446)
REFERENCE
AUTHORS Hillier, L., Allien, M., Bowles, L., Dubuque, T., Geisel, G., Jost, S., Krizman, D., Kucaba, T., Lacy, M., Le, N., Lennon, G., Marra, M., Martin, J., Moore, B., Schellenberg, K., Steptoe, M., Tan, F., Theising, B., White, Y., Wylie, T., Waterston, R., and Wilson, R.
 WashU-NCI human EST Project
 Unpublished (1997)
 Contact: Wilson, R.
 Washington University School of Medicine
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1870
 Fax: 314 286 1870
 Email: estevatson.wustl.edu
 This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.
 Seq primer: -28ml3 revl ET from Amersham
 High quality sequence stop: 430.

FEATURES
 source
 1. .446
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="IMAGE:842067"
 /clone_lib="Stratagene lung (#937210)"
 /sex="male"
 /dev_stage="72 years"
 /lab_host="SOLR cells (kanamycin resistant)"
 /note="Organ: lung; Vector: pBluescript SK-; Site_1: EcoRI ; Site_2: XhoI; Cloned unidirectionally. Primer: Oligo dt. normal lung. Average insert size: 1.0 kb; Uni-ZAP XR vector; -5' adaptor sequence: 5' GAATTCGGCACAG 3' -3' adaptor sequence: 5' CTCGATTTTTTTTTTTTTTTT 3' others
 105 a 112 c 131 g 97 t 1 others

BASE COUNT
 105 a 112 c 131 g 97 t 1 others

ORIGIN
 Query Match 11.6%; Score 342; DB 10; Length 446;
 Best Local Similarity 100.0%; Pred. No. 1.4e-169; Mismatches 0; Indels 0; Gaps 0;
 Matches 342; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1944 tgtatttgaagaggttctcagacctgtctgtggtggtggtggtggtggtggtggtggt 2003
 |||||
 59 TGTGATTGGAAGAGTTCAGACCTGTGTGTGGCGGCACTGCAAGCATGCGTTTGGCTGT 118
 |||||
 2004 gcctgtgtgcacacctgtgctggaagtgtctattccggggacacatccctccag 2063
 |||||
 119 CGCTGTGTGCACACCTGTGTGGAAAGTGTCTATTCCGGGGACACATCCCTCCGAG 178
 |||||
 2064 gctctgttcgggatggggaagatgccacctctctgatacatgaagccacctggaagt 2123
 |||||
 179 GCTCTGTGCGGATGGGGAAGATGCCACCTCTCTGTATACATGAAGCCACCTCGAAGAT 238
 |||||
 2124 ggttgaagaggaagcagtggaagaaagacacacagcgaacagtcctccagcagcgtg 2183
 |||||
 239 GGTGTTGAAGGAAGAGTGTGGAAGAACACACACAGCACAGTCCCAAGCCATCAGCGTG 298
 |||||
 2184 gggatgcggatgaacgcggaggttcattctgtaaccattccagcagcgtatgcaag 2243
 |||||
 299 GGGATGCGGATGAACGCGGAGTTCATTATGCTGAACCACTTCAGCCAGCGCTATGCCAAG 358
 |||||
 2244 gtccctcttccagcccaacttcagcgagaagtggagtt 2285
 |||||
 359 GTCCCCCTCTTCAGCCCCCACTTCAGCGAGAAAGTGGAGTT 400
 |||||

```
RESULT 35
LOCUS      AA679618      452 bp      mRNA      EST      02-DEC-1997
DEFINITION ag72c12.s1 Gessler Wilms tumor Homo sapiens cDNA clone
IMAGE:1128502 3' similar to SW:YK59_YEAST P36159 HYPOTHETICAL 96.8
KD PROTEIN IN S1S2-MTD1 INTERGENIC REGION. ; mRNA sequence.
ACCESSION  AA679618
VERSION     AA679618.1  GI:2660140
KEYWORDS    EST.
SOURCE      human.
ORGANISM    Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 452)
Hillier, L., Allen, M., Bowles, L., Dubuque, T., Geisel, G., Jost, S.,
Krizman, D., Kucaba, T., Lacy, M., Le, N., Lennon, G., Marra, M., Martin,
J., Moore, B., Schellenberg, K., Steptoe, M., Tan, F., Theising, B.,
White, X., Wyllie, T., Waterston, R. and Wilson, R.
WashU-NCI human EST Project
Unpublished (1997)
Contact: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
This clone is available royalty-free through LNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Possible reversed clone: similarity on wrong strand
Possible reversed clone: polyT not found
Seq primer: -40m13 fwd. Et from Amersham.
Location/Qualifiers
1..452
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1128502"
/clone_lib="Gessler Wilms tumor"
/sex="pooled (6)"
/lab_host="DH10B"
/notes="Vector: pSPORT1; Site_1: SalI; Site_2: NotI; RNA
was prepared from a pool of 6 anonymous Wilms' tumor RNAs.
RNA was prepared by acid-phenol, followed by one round of
oligo dT selection. cDNA library preparation was with
the BRL/life tech. Superscript Plasmid system. An
oligo-dT NotI primer for first strand synthesis generated
cgccggccct(n at the 3' end of the clones. A 5' SalI
adaptor was used with sequence 5'-gtcagccacgcgtccg-3'.
Resulting cDNAs were size selected (average size 2 kb),
NotI digested, and ligated into NotI/SalI-cut pSPORT1.
Library was constructed by Dr. Manfred Gessler."
BASE COUNT  111 a 120 c 126 g 95 t
ORIGIN
Query Match      11.6%; Score 342; DB 10; Length 452; --
Best Local Similarity 100.0%; Pred. No. 1.4e-169; Mismatches 0; Indels 0; Gaps 0;
Matches 342; Conservative 0;

251  ccgggactcggcgccgctctacgtctctccgagttcaaccggtatcttcaactg 310
|||||
3  111  CCGGGACTCGGGCGCGCGCTCTACGTCCTCCGAGTTCACCGGTATCTTCAACTG 170
|||||
5  311  tggagaagcgcttcagagactcatgcaggagcacaaagttaaaggttgcctgcctgacaa 370
|||||
7  171  TGGAGAAGCGCTTCAGAGACTCATGCAGGAGCACAAAGTTAAAGGTTGCTCGCGTGACAA 230
|||||
9  371  catattcctgcacaaatcactggtctaatttggggcttaagtgaattcttacc 430
|||||
11 231  CATATTCCCTGACACGAATGCATGGTCTTAATGTTGGGGGCTTAAGTGAATGATTTTAC 290
|||||
13 431  tttaaggaaacggggtctccaaaagtgtgtactttctggacctcccaactggaataaata 490
|||||

Db 291  TTTAAGGAACACCGGCTTCCAAAGTGTACTTCTGGACCTCCACAACTGGAATA 350
|||||
Qy 491  cctcgaagaatcaaatattttctgtccattgaaagaatagaaactgctgtcgcc 550
|||||
Db 351  COTCGAAGCAATCAAAATATTTCCTGTCATTAAGAAATAGAACTGGCTGTGCGGCC 410
|||||
Qy 551  coactctcctccagaaatcagaggatgaaccatgacagtta 592
|||||
Db 411  CCACCTCTGCCCCAGAATACGAGGATGAACCAACCATGACAGTTTA 452
|||||

RESULT 36
LOCUS      BE795434      698 bp      mRNA      EST      20-SEP-2000
DEFINITION 601592991F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3946774 5',
mRNA sequence.
ACCESSION  BE795434
VERSION     BE795434.1  GI:10216632
KEYWORDS    EST.
SOURCE      human.
ORGANISM    Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 698)
NIH-MGC http://www.ncbi.nlm.nih.gov/MGC/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Tel: (301) 496-1550
Email: Robert.Strausberg@nih.gov
Tissue Procurement: DCTD/BTP
cDNA Library Preparation: Ling Hong/Rubin Laboratory
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov
Plate: LLCM807 row: f column: 23
High quality sequence stop: 389.
Location/Qualifiers
1..698
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:3946774"
/clone_lib="NIH_MGC_7"
/tissue_type="small cell carcinoma"
/lab_host="DH10B (phage-resistant)"
/notes="Organ: lung; Vector: pOTB7; Site_1: XhoI; Site_2:
EcoRI; cDNA made by oligo-dT priming. Directionally
cloned into EcoRI/XhoI sites using the following 5'
adaptor: GGCACGAG(G). Size-selected >500bp for average
insert size 1.8kb. Library constructed by Ling Hong in
the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies)."
```



```

VERSION      RA632118.1  GI:2555532
KEYWORDS     EST.
SOURCE       human.
ORGANISM     Homo sapiens
REFERENCE    1 (bases 1 to 397)
AUTHORS      NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE        National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
              Tumor Gene Index
JOURNAL      Unpublished (1997)
COMMENT      Contact: Robert Strausberg, Ph.D.
              Tel: (301) 496-1550
              Email: Robert.Strausberg@nih.gov
              Emmert-Buck, M.D., Ph.D.
              CDNA Library Preparation: M. Bento Soares, Ph.D.
              DNA Sequencing by: Washington University Genome Sequencing Center
              Clone distribution: NCI-CGAP clone distribution information can be
              found through the I.M.A.G.E. Consortium/LLNL at:
              www-bio.llnl.gov/bbrp/image/image.html
              Insert Length: 1436 Std Error: 0.00
              Seq primer: -40m13 fwd. ET from Amersham
              High quality sequence stop: 383.
              Location/Qualifiers
                1. .397
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                  /clone="IMAGE:1131317"
                  /clone_lib="NCI-CGAP.Br2"
                  /sex="female, pooled"
                  /tissue_type="breast"
                  /lab_host="DH10B"
                  /notes="Vector: pT73D-Pac (Pharmacia) with a modified
                    polylinker; 1st strand cDNA was prepared from pooled bulk
                    breast tumor tissue, and was then primed with a Not I -
                    oligo(dT) primer. Double-stranded cDNA was ligated to Eco
                    RI adaptors (Pharmacia), digested with Not I and cloned
                    into the Not I and Eco RI sites of the modified pT73
                    vector. This library is the normalized version of
                    NCI-CGAP.Br1.1. Library was constructed by Bento Soares
                    and M. Fatima Bonaldo."
                98 a 100 c 111 g 88 t
FEATURES             source
BASE COUNT          98 a 100 c 111 g 88 t
ORIGIN
Query Match          10.9%; Score 323; DB 10; Length 397;
Best Local Similarity 100.0%; Pred. No. 1.7e-159;
Matches 323; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 251 ccgggaactcggcgccgcgtctactgttctccagttccacgggtatctcttcaactg 310
D 71 CCGGGACTCGGGCGCGGCTCTACGCTCTCCGAGTCAACGGGTATCTTCAACTG 130
Y 311 tggagaaggcgttcagagactcatcgaggacacaaagtttaagttgctgcctggacaa 370
D 131 TGGAGAAGGCGCTTCAGAGACTCATCGAGGAGCACAAGTTAAGGTTGCTCGCCTGGACAA 190
Y 371 catattctgacacgaatgcactgggtctcaatgttgggggcttaagtgaatgattcttac 430
D 191 CATATTCTGCACAGCAATGCATGCTAGTCTAATGTTGGGGGCTTAAGTGAATGATCTTAC 250
Y 431 tttaaagaaacccgggttccaaagtgtgtactttcttgagacctccacaaactggaaaaata 490
D 251 TTTAAAGAAACCCGGGTTCCAAAGTGTGTACTTCTGGAGCTCCACAACCTGGAATAATA 310
Y 491 cctcgaagcaatcaaatattttctgtccattgaaggataagaactggctgtgcggcc-550
D 311 CCTCGAGCAATCAAAATATTTTCTGGTCCATTGAAGGAATAGAACTGGTGTGCGGCC 370
Y 551 ccactctgccccagaatacaggg 573
|||||

```

```

Db 371 CCACCTGCCCCAGAAATACGAGG 393
RESULT 43
R55841
LOCUS
DEFINITION
Yg89401.r1 Soares infant brain lNIB Homo sapiens cDNA clone
IMAGE:40931 5' similar to SP:YK59_YEAST P36159 HYPOTHETICAL 96.8 KD
PROTEIN IN SIS2-MTDD INTERGENIC ;, mRNA sequence.
R55841
ACCESSION
VERSION R55841.1 GI:825947
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 482)
AUTHORS Hillier, L., Clark, N., Dubuque, T., Elliston, K., Hawkins, M., Holman
M., Hultman, M., Kucaba, T., Le, M., Lennon, G., Marra, M., Parsons, J.,
Rifkin, L., Rohlfing, T., Soares, M., Tan, F., Trevaskis, E., Waterston
, R., Williamson, A., Wohlmann, P. and Wilson, R.
TITLE The WashU-Merck EST Project
JOURNAL Unpublished (1995)
COMMENT Contact: Wilton RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
Insert Size: 1777
High quality sequence stops: 387 Source: IMAGE Consortium, LLNL
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Insert Length: 1777 Std Error: 0.00
Seq primer: M13RPI
High quality sequence stop: 387.
Location/Qualifiers
  1. .482
    /organism="Homo sapiens"
    /db_xref="GDB:413472"
    /db_xref="taxon:9606"
    /clone="IMAGE:40931"
    /clone_lib="Soares infant brain lNIB"
    /sex="female"
    /dev_stage="73 days post natal"
    /lab_host="DH10B (ampicillin resistant)"
    /notes="Organ: whole brain; Vector: lNIB; Site: 1: Not
      I; Site: 2: Hind III; 1st strand cDNA was primed with a Not
      I - oligo(dT) primer [5',
      AACTGGAAGAATTCGGCGCGCGAGGAATTTTCTTTTCTTTT 3'];
      double-stranded cDNA was ligated to Hind III adaptors
      (Pharmacia), digested with Not I and directionally cloned
      into the Not I and Hind III sites of the lNIB BA vector.
      Library went through one round of normalization. Library
      constructed by Bento Soares and M. Fatima Bonaldo."
BASE COUNT 107 a 139 c 131 g 102 t 3 others
ORIGIN
Query Match          10.9%; Score 323; DB 144; Length 482;
Best Local Similarity 100.0%; Pred. No. 1.7e-159;
Matches 323; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1430 gcaggagtcagaggagtcgcaggacgcccagccccgcagagagaaagagtcagta 1489
D 43 GCAGGAGTACAGGAGGAGTGCAGGACGCCGCCAGAGAGAGAGAGAGTCACTA 102
Y 1490 ccagagaatcatcttccttgagacaggtctgccatcccatgaagattcgaaatgcag 1549
D 103 CCCAGAAATCATCTCTCTTGGACAGGGGTCTGCCATCCCATCGAATTCGAATGTCAG 162
Y 1550 tggcacactgtcaacataagccccgacacgtctctgactgactggtggtgagggcac 1609
|||||

```

163 TGCCACACTTGTCAACATAAGCCCGACACGCTCTCTCTACTTGGACTGTGGTGAAGGCAC 222
 1610 atttggcagctgtgcgtcattacagagaccagggtgacagaggttccctggcaccctggc 1669
 223 ATTTGGCAGCTGTGCGGTCTATTACGAGACACAGGTGGACAGGGTCTCTGGCACCCTGGC 282
 1670 tgtgtgtttgtgtcccaacctgcacgcagatcaccacacaggggttgcacaagtattctgt 1729
 283 TGTGTGTGTGTGCTCCACCTGCACGCAGATCACCCACACGGGCTTGGCAAGTATCTTGCT 342
 1730 gcagagagaacgccccttggcat 1752
 343 GCAGAGAGAACGCCCTTGGCAT 365

 RESULT 44
 AA233087 366 bp mRNA EST 28-FEB-1997
 zrf8908.r1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:668606
 5', mRNA sequence.
 AA233087
 AA233087.1 GI:1856275
 EST.
 human.
 ORGANISM
 Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 1 (bases 1 to 366)
 AUTHORS
 Hillier, L., Clark, N., Dubuque, T., Elliston, K., Hawkins, M., Holman
 M., Hultman, M., Kucaba, T., Le, M., Lennon, G., Marra, M., Parsons, J.,
 Rifkin, L., Rohlfing, T., Soares, M., Tan, F., Trevaskis, E., Waterston
 R., Williamson, A., Wohlmann, P., and Wilson, R.
 The WashU-Merck EST Project
 Unpublished (1995)
 Contact: Wilson RK
 Washington University School of Medicine
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: est@watson.wustl.edu
 This clone is available royalty-free through LLNL; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.
 Seq primer: -28m13 rev2 ET from Amersham
 High quality sequence stop: 346.
 Location/Qualifiers
 1. 366
 /organism="Homo sapiens"
 /db_xref="GBA:5562573"
 /db_xref="taxon:9606"
 /clone="IMAGE:668606"
 /clone_lib="Soares_NhHMPu_S1"
 /tissue_type="Pooled human melanocyte, fetal heart, and
 pregnant uterus"
 /lab_host="DH10B"
 /note="Organ: mixed (see below); Vector: pMT3D-Pac
 (Pharmacia) with a modified polylinker; Site_1: Not I;
 Site_2: Eco RI; Equal amounts of plasmid DNA from three
 normalized libraries (melanocyte 2NBH, pregnant uterus
 NHPU, and fetal heart NBH19W) were mixed, and ss circles
 were made in vitro. Following HAP purification, this DNA
 was used as tracer in a subtractive hybridization
 reaction. The driver was PCR-amplified cDNAs from pools of
 5,000 clones made from the same 3 libraries. The pools
 consisted of I.M.A.G.E. clones 260232-265223,
 340488-345479, and 484488-489479."
 83 a 90 c 110 g 83 t
 BASE COUNT
 -RIGIN

 Query Match 10.6%; Score 315; DB 4; Length 366;
 Best Local Similarity 99.7%; Pred. No. 2.9e-155;
 Matches 365; Conservative 0; Mismatches 1; Indels 0; Gaps 0;


```
Query Match          9.8%: Score 291; DB 17; Length 404;
Best Local Similarity 100.0%; Pred. No. 1.5e-142;
Matches 291; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

jY 255 gactcgccgcccgcgtctacgtctctccaggtccaccggtatcttcaactgtgga 314
|||||
Db 114 GACTCGGGCGCGGCTCTAGTCTTCTCCGAGTTCACCCGGTATCTTCAACTGTGGA 173
|||||
jY 315 gaagcggttcagagactcatcagagacacaaagttaaaggttgctcgctggacaacata 374
|||||
Db 174 GAAGCGGTTCAGAGACTCATGCAGGAGCACAAAGTTAAAGGTGCTCGCGTGGACAACATA 233
|||||
jY 375 ttctgacacaaatgcactgtcttaatttggggcttaagtgaattcttacttta 434
|||||
Db 234 TTCCTGACACGAATGCATGCTGCTTAATGTTGGGGCTTAAAGTGAATGATCTTACTTTA 293
|||||
jY 435 aaggaacccgggtcccaagtgttactttctggaacctccacaaactggaataacctc 494
|||||
Db 294 AAGGAACCCGGGTCTCCAAAGTGTACTTTCTGGACCTCCCAACTGGAATAACCTC 353
|||||
jY 495 gaagcaatcaaaatattttctggtccattgaaaggaatagaactggctgtg 545
|||||
Db 354 GAAGCAATCAAAATATTTCTGGTCCATTGAAAGGAATAGAACTGGCTGTG 404

RESULT 51
BE858252/c
LOCUS BE858252 494 bp mRNA EST 29-SEP-2000
DEFINITION 7q21a09.x1 NCI_CGAP_Brn23 Homo sapiens cDNA clone IMAGE:3307096 3',
mRNA sequence.
ACCESSION BE858252
VERSION BE858252.1 GI:10372932
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 494)
NCI/NINDS-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute / National Institute of Neurological
Disorders and Stroke, Brain Tumor Genome Anatomy Project
(CGAP/BTGP), Tumor Gene Index
Unpublished (1998)
Contact: Robert Strausberg, Ph.D.
Tel: (301) 496-1550
Email: Robert.Strausberg@nih.gov
Tissue Procurement: David N. Louis, M.D., Myrna R. Rosenfeld M.D.,
Ph.D.
cDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima
Bonaldo, Ph.D.
cDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL, send email to:
info@image.llnl.gov
Seq primer: -400P from Gibco
High quality sequence stop: 493.
Location/Qualifiers
1. 494
/organism="Homo sapiens"
/db.xref="taxon:9606"
/clone="IMAGE:3307096"
/tissue_type="NCI_CGAP_Brn23"
/lab_host="DH10B"
/note="Organ: brain; Vector: pT7T3D-Pac (Pharmacia) with a
modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st
strand cDNA was primed with a Not I - oligo(dT) primer [5'
TGTACCAATCTGAAGTGGAGCGCGCATATCTTTTCTTTTCTTTTCTTTT
T 3']; double-stranded cDNA was ligated to Eco RI
adaptors (Pharmacia), digested with Not I and cloned into
the Not I and Eco RI sites of the modified pT7T3 vector.
```

```
Library is normalized, and was constructed by Bento
Soares and M.Fatima Bonaldo."
BASE COUNT 95 a 140 c 124 g 135 t
ORIGIN
Query Match          9.8%: Score 290; DB 136; Length 494;
Best Local Similarity 99.2%; Pred. No. 5.2e-142;
Matches 490; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 2463 gatgggagcctcagcagaagcggccacacagagggccacaggaagtcaga 2522
|||||
Db 494 GATGGGAGCCTCAGCAGAAGCGGGCCACACAGAGGAGCCACAGGCCCAAGGTCAGA 435
|||||
Qy 2523 gccagtgaaatctggagagacctgaactcagaagcgtgtctctctccccacaca 2582
|||||
Db 434 GCCCAGTGAAGATCTGGGAGACCTGAACTCAGAAGGCTGTGTCTTCTGCCACGCA 375
|||||
Qy 2583 cgcaccgtatctccctctctctgtgtgtagaagctgaagacacggctccccagagaca 2642
|||||
Db 374 CGCACCCGTATCTGCCCTCTCTGTGTAGAGCTGAAGACACGGTCCCCCAGGAGCA 315
|||||
Qy 2643 gctcagatagtggtgagcgtgcccagggcttgggtccccacataaagcactagct 2702
|||||
Db 314 GCTCAGGATAGTGTGATGGAGCTGTGCCGAGGCTTGGGGTCCACATAAGCACCTAGCT 255
|||||
Qy 2703 atagatgctctttaggactggtgctggcagcgcgcgcgcgcgcgcgcgcgcgcgc 2762
|||||
Db 254 ATAGATGCTCTTAGGACTGTGTGCTGTCACAGCTGCGGGCCAGGAGGCTGCCACCGA 195
|||||
Qy 2763 agcaagcagatgaactaatttcatttcaggcagctttttaaagagctcttgaaacacac 2822
|||||
Db 194 AGCAAGCAGATGAACATAATTTCAATTTCAAGCCAGCTTTTAAAGAGTGCATGGAACACAC 135
|||||
Qy 2823 ggcggcaccttctcttaataccagcaagtgattccctgcacacacagacagacagag 2882
|||||
Db 134 GCGGCGACCTTCTCTTAATCCAGCAAAATGATTCCTCTGCACACCCAGACAGACAGT 75
|||||
Qy 2883 aacggatcagtggttctaaagtctccagacttaacgaaaaatagatttcagctgcaata 2942
|||||
Db 74 AACAGGATCAGTGGGTCTAAGTCTCCGAGACTTAACGAAATAGTATTTCAGCTGCAATA 15
|||||
Qy 2943 aagattgagttgc 2956
|||||
Db 14 AAGATTGAGTTTGC 1

RESULT 52
BE243887
LOCUS BE243887 414 bp mRNA EST 13-JUL-2000
DEFINITION TCBAP1E1522 Pediatric pre-B cell acute lymphoblastic leukemia
Baylor-HSC Project-TCBA Homo sapiens cDNA clone TCBAP1522, mRNA
sequence.
ACCESSION BE243887
VERSION BE243887.1 GI:9095627
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 414)
AUTHORS Wei, Y., Tsang, Y.T.M., Mei, G., Ku, J.M., Ali-Osman Jr., F.R., Muzny, D.,
Bouck, J., Gibbs, R.A. and Margolin, J.F.
TITLE Pediatric Leukemia cDNA Sequencing Project
JOURNAL Unpublished (2000)
COMMENT Contact: Dr. Judith F. Margolin
Human Genome Sequencing Center at Baylor College of Medicine and
Texas Children's Cancer Center
One Baylor Plaza, Houston, TX 77030, USA
Tel: 713 770 4536
Fax: 713 770 4038
Email: jmargin@bcm.tmc.org
Seq primer: M13 primer.
```

Phillips,C.A., Ryder,S.E., Scott,J.L., Saudek,D.M., Shirley,R., Small,K.V., Spriggs,T.A., Utterback,T.R., Weidman,J.F., Li,Y., Bednarik,D.P., Cao,L., Cepeda,M.A., Coleman,T.A., Collins,E.J., Dimke,D., Feng,D.-F., Ferrie,A., Fischer,C., Hastings,G.A., He,W.W., Hu,J.S., Greene,J.M., Gruber,J., Hudson,P., Kim,A.K., Kozak,D.L., Kunsch,C., Hungjun,J., Li,H., Meissner,P.S., Olsen,H., Raymond,L., Wei,Y.F., Wing,J.J., Xu,C., Yu,G.L., Ruben,S.M., Dillion,P.J., Fannon,M.R., Rosen,C.A., Haseltine,W.A., Fields,C., Fraser,C.M. and Venter,J.C.

Initial assessment of human gene diversity and expression patterns based upon 83 million nucleotides of cDNA sequence
Nature 377 (6547 Suppl.), 3-174 (1995)
96026280
Other_ESTs: THCL175624
Contact: Kerlavage, AR
Bioinformatics
The Institute for Genomic Research
9712 Medical Center Drive, Rockville, MD 20850 USA
Tel: 3018699056
Fax: 3018699423
Email: arkerlav@tigr.org
For clone availability, additional sequence and expression information related to this EST, please check the TIGR Human Gene Index (<http://www.tigr.org/tdb/hgi/hgi.html>)
Seq primer: M3 Reverse.
Location/Qualifiers
1. .355
/organism="Homo sapiens"
/db_xref="ATCC (inhost):153799"
/db_xref="taxon:9606"
/clone_lib="Activated T-cells XX"
/cell_type="T-lymphocyte"
/dev_stage="adult"
/note="Vector: pBluescript SK-; Site_1: EcoRI; Site_2: XhoI"

BASE COUNT 81 a 102 c 90 g 77 t 5 others
ORIGIN

Query Match 9.7%; Score 286; DB 6; Length 355;
Best Local Similarity 100.0%; Pred. No. 6.7e-140;
Matches 286; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1043 aaaggcagatgccccgtggccttggtggttcacatgccccagcattctgtgttgga 1102
|||||
Db 1 AAAGGCAGATGCCCGTGGCCTTGGTGTTCATGGCCCGCCAGCATCTGCTGTGTGGA 60
|||||

QY 1103 cagcaggtaccagcagtgatgagagggttggtggtcagaccagcactgtgtctgaa 1152
|||||
Db 61 CAGCAGGTACCAGCAGTGGATGAGAGGTTTGGCGCTGCACCCAGCAGCATGTGGTCTGAA 120
|||||

QY 1163 tgagaactgcttcagttcacaccttcgcagccacaagattcaaacccagctccaacct 1222
|||||

Db 121 TGAGAACTGTGCTCAGTTCACAACTTCGACGCCACAGATCAAAACCCAGCTCACCT 180
|||||

QY 1223 catccaccggacattctcccctgctcaccagtttcctgctgaagaaggaggcccccac 1282
|||||

Db 181 CATCCACCGGACATCTTCCCCTGCTCACCAGTTTCGGCTGTAAAGAAGGAGGCCCCAC 240
|||||

QY 1283 cctcagtgcccattggttcagggtgaaatgcctcctcaatgacag 1328
|||||

Db 241 CCTCAGTGTGCCATGTTGTCAGGCGTAATGCCCTCCTCAAGTACCAG 286
|||||

RESULT 54
W37486 397 bp mRNA EST 10-OCT-1996
LOCUS
DEFINITION zc10f03.s1 Soares_parathyroid_tumor_NBHPA Homo sapiens CDNA clone
IMAGE:321917.3 similar to SW:YK59_YEAST P36159 HYPOTHETICAL 96.8
KD PROTEIN IN SIS2-MTD1 INTERGENIC REGION. [1] ; mRNA sequence.
W37486
ACCESSION W37486
VERSION W37486.1 GI:1319080
KEYWORDS EST.

||||| 274 GCACTAGTCTATAGATTGCGCTCTTAGACTGGTGCCCTGGCACACGCCGGGCCAGGAGTT 215
 ||||| 2753 gccacaggaacacgacataaaatttcatttcaaggcagtttttaaacagtctt 2812
 ||||| 214 GCCACACGGAAGCAGCATGAACATAATTTCAITTCATTAAGGCAGTTTTTAAAGAAGTCAT 155
 ||||| 2813 ggaacacagcgccggcacctttctctaaccagaaaagtgtacctgcacaccagaga 2872
 ||||| 154 GGAAACAGACGCGGCACCTTTCCTCTAATCCAGCAAAGTGTCCCTGCACACCAGAGA 95
 ||||| 2873 caagcagagtaacaggatcagtggttgttaagtcccgagacttaacgaaaaatagtatttc 2932
 ||||| 94 CAACGACAGTAACAGCATCAGTGGGTCTAAGTCTCCGAGACTTAACGAAAAATAGTATTC 35
 ||||| 2933 agctgcaataaagattgattgtcaa 2958
 ||||| 34 AGCTCAATAAAGATTGAGTTGCCAA 9

RESULT 56	AI803400	489 bp	mRNA	EST	13-DEC-1999
LOCUS	tc42f03.xl Soares_total.fetus.Nb2HF8_9w Homo sapiens cDNA clone				
DEFINITION	IMAGE:2067293 3', mRNA sequence.				
VERSION	AI803400				
KEYWORDS	AI803400.1 GI:5368962				
SOURCE	EST.				
ORGANISM	human.				
REFERENCE	Homo sapiens				
AUTHORS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
TITLE	Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.				
JOURNAL	1 (bases 1 to 489)				
COMMENT	NCI-CGAP http://www.ncbi.nlm.nih.gov/hicogap. National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index Unpublished (1997) Contact: Robert Strausberg, Ph.D. Tel: (301) 496-1550 Email: Robert.Strausberg@nih.gov This clone is available royalty-free through LML; contact the IMAGE Consortium (info@image.llnl.gov) for further information. Insert length: 1275 Std Error: 0.00 Seq primer: -40UP from Gibco High quality sequence stop: 446. Location/Qualifiers 1..489 /organism="Homo sapiens" /db_xref="taxon:9606" /clone="IMAGE:2067293" /dev_stage="8-9 weeks" /lab_host="DH10B" /note="Vector: pT7R3D-Pac (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA was prepared from mRNA obtained from pooled 8-9 week (total) fetus material with a Not I - oligo(dT) primer [5' TGTTACCAATCGAAGTGGGACGGCCGCTTAATTTTGTTTT 3']. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7R3 vector. Library went through one round of normalization, and was constructed by Bento Soares and M. Fatima Ronaldo."				

BASE COUNT 94 a 134 c 124 g 137 t

Query Match 9.6%; Score 283; DB 25; Length 489;
 Best Local Similarity 99.2%; Pred. No. 2,6e-138;
 Matches 483; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

2472 cctcagcagaagcggcccacacagagcagcagccaagtcacagccagtagta 2531
 |||||

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 278)
Dias Neto,E., Garcia Correa,A., Vexijovski-Almeida,S., Briones,M.R., Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.F., Goldman,G.H., Carvalho,A.F., Macsukuma,A., Baia,G.S., Simpson,D.H., Brunstein,A., deOliveira,P.S., Bucher,P., Jongeneel,C.V., O'Hare ,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and Simpson,A.J.
Shotgun sequencing of the human transcriptome with ORF expressed sequence tags
Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
20202663
Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil
Tel: +55-11-2704922
Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=st2-ILO-ST0002-160
599-003&t3=1999-05-16&t4=1)
Seq primer: puc 18 forward
High quality sequence stop: 278.

IMAGE:844019 5', mRNA sequence.

AA635046
VERSION AA635046.1 GI:2558260
KEYWORDS EST.
SOURCE human.

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
1 (bases 1 to 461)
Hallier,L., Allen,M., Bowles,L., Dubuque,T., Geisel,G., Jost,S.,
Krizman,D., Kucaba,T., Lucy,M., Le,N., Lennon,G., Marra,M., Martin
,J., Moore,B., Schellenberg,K., Steptoe,M., Tan,F., Theising,B.,
White,Y., Wylie,T., Waterston,R. and Wilson,R.
washU-NCI human EST Project
Unpublished (1997)
Contact: Wilson RK
Washington University School of Medicine
444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
This clone is available royalty-free through LNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Insert Length: 694 Std Error: 0.00
Seq primer: -28ml3 rev1 Et from Amersham
High quality sequence stop: 453.
Location/Qualifiers
1 .461
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:844019"
/clone_lib="Stratagene lung carcinoma 937218"
/tissue_type="lung carcinoma"
/cell_line="NCI-H69"
/dev_stage="cell line NCI-H69"
/lab_host="SOLR (kanamycin resistant)"
/note="Organ: lung; Vector: pBluescript SK-; Site 1: EcorR
; Site 2: XhoI; cloned unidirectionally. Primer: Oligo
dt. Small cell carcinoma cell line NCI-H69. Average
insert size: 1.0 kb; Uni-ZAP XR Vector; -5' adaptor
sequence: 5' GAATTCGACGAG 3' -3' adaptor sequence: 5'
CTCGAGTTTTTTTTTTT 3'"

110 a 120 c 159 g 72 t

BASE COUNT
ORIGIN

[illegible]

:RESULT	60
:	..A635046
:	
:CCUS	AA635046
:	461 bp
:	mRNA
:FINITION	Stratagene lung carcinoma 937218
:	ab48506.r1 Homo sapiens cDNA clone
:	06-MAR-1998


```

RESULT 61
LOCUS AW175581/c 364 bp mRNA EST 16-NOV-1999
DEFINITION OVO-BT0041-030999-013-e09 BT0041 Homo sapiens cDNA, mRNA sequence.
ACCESSION AW175581
VERSION AW175581.1 GI:6441618
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 364)
AUTHORS HCGP http://www.ludwig.org.br/ORESTES.
TITLE The FAPESP/LICR Human Cancer Genome Project
JOURNAL Unpublished (1999)
COMMENT Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
Brazil
Tel: +55-11-2704922
Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?ci=QV0&t2=QV0-BT0041-
030999-013-e09&t3=1999-09-03&t4=1)
Seq primer: puc 18 forward
High quality sequence start: 75
High quality sequence stop: 364.
FEATURES
Location/Qualifiers
1..364
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_lib="BT0041"
/dev_stage="Adult"
/note="Organ: breast; Vector: puc18; Site_1: SmaI; Site_2:
SmaI; A mini-library was made by cloning products derived
from ORESTES PCR (U.S. Letters Patent application No. 196
716 - Ludwig Institute for Cancer Research) profiles
into the pUC 18 vector. Reverse transcription of tissue
mRNA and cDNA amplification were performed under low
stringency conditions."
BASE COUNT 75 a 93 c 118 g 78 t
ORIGIN
Query Match 9.3%; Score 274; DB 87; Length 364;
Best Local Similarity 100.0%; Pred. No. 1.5e-133;
Matches 274; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1025 ctttcagaggtaccagaaggaagcagatgcccccgtggccttggtgttcacatggcccc 1084
13 364 ctttcagaggtaccagaaggaagcagatgcccccgtggccttggtgttcacatggcccc 305
17 1085 agcatctgtgttggtggacagcaggtaccagcagtggtgagaggtttgggacctgacac 1144
20 304 agcatctgtgttggtggacagcaggtaccagcagtggtgagaggtttgggacctgacac 245
23 1145 ccagcactgtgttcgtgatgagaactgtgcttcagttcacacaccttcagccacaagat 1204
26 244 ccagcactgtgttcgtgatgagaactgtgcttcagttcacacaccttcagccacaagat 185
29 1205 tcaaacccagctcaacccctcaccacccgagacatctcccccctgctcaccagtttcgctg 1264
32 184 tcaaacccagctcaacccctcaccacccgagacatctcccccctgctcaccagtttcgctg 125
35 1265 taagaagagagggcccccaccctcagtggtgcccattg 1298
38 124 taagaagagagggcccccaccctcagtggtgcccattg 91

```

```

RESULT 62
LOCUS AA994126 457 bp mRNA EST 27-AUG-1998
DEFINITION Ou38b06.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone
IMAGE:1628531 3' similar to SW:YK59.YEAST P36159 HYPOTHETICAL 96.8
KD PROTEIN IN SIS2-MTD1 INTERGENIC REGION. ; mRNA sequence.
ACCESSION AA994126
VERSION AA994126.1 GI:3180671
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 457)
AUTHORS NCI-CCAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Tel: (301) 496-1550
Email: Robert_Strausberg@nih.gov
This clone is available royalty-free through LNL; contact the
IMAGE Consortium (info@image.llni.gov) for further information.
Insert Length: 1193 Std Error: 0.00
Seq primer: -40ml3 fwd. ET from Amersham
High quality sequence stop: 439.
FEATURES
Location/Qualifiers
1..457
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1628531"
/clone_lib="Soares_NFL_T_GBC_S1"
/lab_host="DH10B"
/note="Organ: pooled; Vector: pT73D-Pac (Pharmacia) with
a modified polylinker; Site_1: Not I; Site_2: Eco RI;
Equal amounts of plasmid DNA from three normalized
libraries (fetal lung NBHL19W, testis NHT, and B-cell
NCI-CGAP-GCB1) were mixed, and ss circles were made in
vitro. Following HAP purification, this DNA was used as
tracer in a subtractive hybridization reaction. The driver
was PCR-amplified cDNAs from pools of 5,000 clones made
from the same 3 libraries. The pools consisted of
I.M.A.G.E. clones 297480-302087, 682632-687239,
726408-728711, and 729096-731399. Subtraction by Bento
Soares and M. Fatima Bonaldo.
BASE COUNT 115 a 119 c 127 g 96 t
ORIGIN
Query Match 9.2%; Score 273; DB 14; Length 457;
Best Local Similarity 100.0%; Pred. No. 5.2e-133;
Matches 273; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 279 ttctccgagttcaaccggtatctctcaactgtgagaagcggttcagagactcatgcaag 338
Db 138 TTCTCCGAGTTCAACCGGTAATCTCTCACTGTGAGAGGCGCTTCAGAGACTCATGAC 197
QY 339 gagcacaagttaaagggttgctgcctggacacacattctctgacacgaatgcactggtct 398
Db 198 GAGCAAGTTAAAGGTTGCTCGCTGGACACACATATCTCTGACACGAATGCACCTGGTCT 257
QY 399 aatgttggggccttaagtgggaatgattcttcttaagggaacccggccttccaaagtgt 458
Db 258 AATGTTGGGGGCTTAAGTGGGAATGATTCTTACTTTAAAGGAACCGGCTTCCAAGTGT 317
QY 459 gtactttctgacctcccaactggaataaacctccgagcaatcaataattttctgt 518
Db 318 GTACTTTCTGACCTCCCAACTGGAAAAAATACCTCGAAGCAATCAATAATTTTCTGT 377
QY 519 ccattgaagaagaatagaactggtgtgcccgc 551
Db 378 CCATTGAAAGGAATAGAACTGGCTGTGCGGCC 410

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2671 cgaggcttgggctccacataagcactagttctatagatgcctcttagactgggtgcctgg 2730
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311

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE

1 (bases 1 to 299)
 AUTHORS Aufrey,C., Behar,G., Bois,F., Bouchier,C., da Silva,C., Devignes,M.D., Duprat,S., Houlgatte,R., Jumeau,M.N., Lamy,B., Lorenzo,F., Mitchell,H., Mariage-Samson,R., Pietu,G., Poulliot,Y., Sebastiani-Kabaktchis,C. and Tessier,A.

TITLE

IMAGE: molecular integration of the analysis of the human genome and its expression

JOURNAL

C. R. Acad. Sci. III, Sci. Vie 318 (2), 263-272 (1995)

MEDLINE

95277534

COMMENT

Contact: Genzentrum Muenchen
 Laboratorium fuer molekulare Biologie
 Am Klopferplatz 18a, 8033 Martinsried, Germany
 Email: obermaier@vms.biochem.mpg.de
 single read.

FEATURES

Location/Qualifiers

1..299

/organism="Homo sapiens"

/db_xref="GDB:D057384E"

/db_xref="taxon:9606"

/clone_lib="HEI030"

/clone_lib="Stratagene cDNA library Human heart,

cat#936208"

/note="Vector: pBluescript SK(+); Human heart cDNA

library. Cloning vector pBluescript SK(+)"

96 a 77 c 70 g 56 t

BASE COUNT

ORIGIN

Query Match 8.4%; Score 248; DB 147; Length 299;

Best Local Similarity 99.7%; Pred. No. 9e-120;

Matches 298; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

451 caaagtgtactttctggacctccacactggaaataatcctcgaagcaatcaaaatat 510

452 1 CAAAGTGTACTTTCTGGACCTCCACAACTCGAATAATACCTCGAAGCAATCAAAATAT 60

453 511 ttcttggtccattgaaagaatagaactggtgtgctgcccccaactctgccccagaatacag 570

454 61 TTCTGGTCCATTGAAGGAATAGAACTGGCTGTGCGGCCCACTCTGCCCCAGAACTACT 120

455 571 aggatgaaccatgacagttaccagatcccatcacacagtgaaacagagagggaagc 630

456 121 AGGATGAACCACTGACAGTTTACCAAGATCCCATACAGTGAACAGAGAGGGGAAGC 180

457 631 accaaccatggcagagtcagaaaggcctctcagcaggctcagtcagtcagcagcagcag 690

458 181 ACCAACCTGGCAGAGTCCAGAAAGGCTCTCAGCAGGCTCAGTCCAGAGCGATCTTCAG 240

459 691 actcagagtcgaataaataagacacaccttccacatggttttagccagagaagagg 749

459 241 ACTCCGAGTCGAATGAAATGAGCCACACCTTCCACATGCTGTGTTAGCCAGAGAGGG 299

RESULT 69

AI991599 517 bp mRNA EST 08-MAR-2000

LOCUS ws18c04.x1 NCI_CGAP_G66 Homo sapiens cDNA clone IMAGE:2497542 3'

DEFINITION similar to SW:YATA_SCHPO Q10155 HYPOTHETICAL 90.6 KD PROTEIN

ACCESSION C104.10 IN CHROMOSOME 1.; mRNA sequence.

VERSION AI991599

KEYWORDS AI991599.1 GI:5838504

ORGANISM EST.

human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 517)

NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.

NATIONAL Cancer Institute, Cancer Genome Anatomy Project (CGAP),

Tumor Gene Index

Unpublished (1997)

COMMENT

Contact: Robert Strausberg, Ph.D.

Tel: (301) 496-1550

Email: Robert_Strausberg@nih.gov

Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael

R. Emmert-Buck, M.D., Ph.D.

cDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima

Bonaldo, Ph.D.

cDNA Library Arrayed by: Greg Lennon, Ph.D.

DNA Sequencing by: Washington University Genome Sequencing Center

Clone distribution: NCI-CGAP clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:

www-bio.llnl.gov/bbrp/image/image.html

Insert Length: 625 Std Error: 0.00

Seq primer: -40Up from Gibco

High quality sequence stop: 426.

FEATURES

Location/Qualifiers

1..517

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/db_xref="taxon:9606"

/clone_lib="IMAGE:2497542"

/clone_lib="NCI_CGAP_G66"

/tissue_type="pooled germ cell tumors"

/lab_host="DH10B"

/note="Vector: pT7T3D-Pac (Pharmacia) with a modified

polylinker; Plasmid DNA from the normalized library

NCI_CGAP_G64 was prepared, and ss circles were made in

vitro. Following HAP purification, this DNA was used as

tracer in a subtractive hybridization reaction. The driver

was PCR-amplified cDNAs from a pool of 5,000 clones made

from the same library (cloneIDs 1257096-1258631,

1469064-1470983, and 1475592-1476743). Subtraction by

Bento Soares and M. Fatima Bonaldo."

118 a 139 c 123 g 136 t 1 others

BASE COUNT

ORIGIN

Query Match 8.4%; Score 247; DB 27; Length 517;

Best Local Similarity 100.0%; Pred. No. 3.1e-119;

Matches 247; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1846 tgcaccacatcagtcattcctgcacaaatgccttcaggaagggtcagatctccagtc 1905

447 TGCACCACATCAGTATGATTCCTGCCAAATGCTTCAGGAAGGGCTCAGATCTCCAGTC 388

1906 ctgcagtggaagattgatcagtcgctgctgcgaacatgattggaagagtttcaga 1965

387 CTGCAGTGGAAAGATTGATCAGTTCGCTGTTCCGAAACATGATTGGAAGAGTTTCAGA 328

1966 cctgtcgtgctggtcagtcgagtcgcttgcgtgctgctgctgctgctgctgct 2025

327 CCTGTCTGTGCGGCACCTGCAAGCATGCTTGGCTGTGCGCTGTGCGCACCTCTGGCT 268

2026 ggaagtggtctattcccggtgacacacatgcctcgcagaggtctctgctccggatgggaaag 2085

267 GGAAGTGTCTATTCCGGGACACCATGCTCGAGGCTCTGTCGGATGGGGAAG 208

2086 atgccac 2092

207 ATGCCAC 201

RESULT 70

BE938229 387 bp mRNA EST 02-OCT-2000

LOCUS CM4-TN0060-290800-565-B02 TN0060 Homo sapiens cDNA, mRNA sequence.

DEFINITION BE938229

ACCESSION BE938229.1 GI:10465340

VERSION EST.

KEYWORDS EST.

SOURCE

human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 387)

AUTHORS
 Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R., Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.F., Goldman, G.H., Carvalho, A.F., Matsumura, A., Baia, G.S., Simpson, D.H., Brunstein, A., de Oliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and Simpson, A.J.
TITLE
 Shotgun sequencing of the human transcriptome with ORF expressed sequence tags
JOURNAL
 Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
COMMENT
 20202663
 Contact: Simpson A.J.G.
 Laboratory of Cancer Genetics
 Ludwig Institute for Cancer Research
 Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil
 Tel: +55-11-2704922
 Fax: +55-11-2707001
 Email: asimpson@ludwig.org.br
 This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL
 (<http://www.ludwig.org.br/scripts/gethtml2.pl?tl=&t2=CM4-TN0060-290>)
 800-565-B02&t3=2000-08-29&t4=1
 Seq primer: puc 18 forward
 High quality sequence stop: 385.

FEATURES
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 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone_lib="TN0060"
 /dev_stage="Adult"
 /note="Organ: testis normal; Vector: puc18; Site_1: Smal; Site_2: Smal; A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."
 112 a 108 c 94 g 72 t 1 others

BASE COUNT
 112 a 108 c 94 g 72 t 1 others
ORIGIN
 Query Match 8.3%; Score 246; DB 137; Length 387;
 Best Local Similarity 99.4%; Pred. No. 1e-118;
 Mismatches 346; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 564 gaatacagagatgaacacatgacagttaccagatccccatcacacagtgaaacagagag 623
 40 GAATACGAGGATGAACACCATGACAGTTTACCAGATCCCATACACATGGAACAGAGG 99
 624 ggaagaccac 683
 100 GGAAGACCAACACATGGCAGAGTCCAGAAAGGCCTCTCAGCAGGCTCAGTCCAGAGCGA 159
 684 tcttcagactccagtcgaatgaatgaatgaatgaatgaatgaatgaatgaatgaatgaat 743
 160 TCTTCAGACTCCGAGTCGATGAATGATGATGATGATGATGATGATGATGATGATGAT 219
 744 agagggggtcaggagactcttcctcctcctcctcctcctcctcctcctcctcctcctc 803
 220 AGAGGGGTcaggagactcttcctcctcctcctcctcctcctcctcctcctcctcctc 279
 804 ggaactcttcgtcgtcaaacgaacgaacgaacgaacgaacgaacgaacgaacgaacgaac 863
 280 GGAATTTNTGGTGCTCAAGCAAGAGGAGATGGGCTCCAGTGGGAGAGTGGCATC 339
 864 gctccatcatctcgtcgtcgaagcagcgggaaagcatcactcatgaa 911
 340 GCTCCCATCTCTGCTGTCAGAGCGGGGAAAGCATCATCATGNA 387

RESULT 71
 2838624/c
 NCUS
 AA838624 429 bp mRNA EST 18-MAR-1998

DEFINITION
 oe91f04.s1 NCI_CGAP_C012 Homo sapiens cDNA clone IMAGE:1419007, mRNA sequence.
ACCESSION
 AA838624
VERSION
 AA838624.1 GI:2913423
KEYWORDS
 EST.
SOURCE
 human.
ORGANISM
 Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
 1 (bases 1 to 429)
 NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
AUTHORS
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP).
TITLE
 Tumor Gene Index
JOURNAL
 Unpublished (1997)
COMMENT
 Contact: Robert Strausberg, Ph.D.
 Tel: (301) 496-1550
 Email: Robert.Strausberg@nih.gov
 Tissue Procurement: L. Jeffrey Medeiros, M.D., Michael R. Emmert-Buck, M.D., Ph.D.
 cDNA Library Preparation: Stratagene, Inc.
 DNA Library Arrayed by: Greg Lennon, Ph.D.
 DNA Sequencing by: Washington University Genome Sequencing Center
 Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www.bio.llnl.gov/bbrp/image/image.html
 Insert Length: 1787 Std Error: 0.00
 Seq primer: -40ml3 fwd. Et from Amersham
 High quality sequence stop: 375.
FEATURES
 Location/Qualifiers
 1. 429
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="IMAGE:1419007"
 /clone_lib="NCI_CGAP_C012"
 /sex="mixed"
 /tissue_type="colon tumor"
 /lab_host="SOLR (kanamycin resistant)"
 /note="organ: colon; Vector: Bluescript SK-; Site_1: EcoRI; Site_2: XhoI; Cloned unidirectionally. Primer: Oligo dr. Pooled colon tumors. 5' adaptor sequence: 5' GAATTCGGCAGCAG 3' 3' adaptor sequence: 5' CTCGAGTGTCTTTTCTTTTCTTTT 3' Average insert size: 1.2 kb."
BASE COUNT
 91 a 115 c 108 g 115 t

Query Match 8.3%; Score 245; DB 12; Length 429;
Best Local Similarity 99.5%; Pred. No. 3.6e-118;
Mismatches 415; Conservative 0; Mismatches 1; Indels 1; Gaps 1;
 QY 2539 ggagacccctgaactcagaaggctgtgtctctctctccacacagcagcccgatctatgccc 2598
 Db 416 GGAGACCCCTGAACACTCAGAAGGCTGTGTCTCTCTCCACGACGACCCCTATCTGCC 357
 QY 2599 ctctctgtgttagaagctgaagcagcagctccccagagcagcagctcaggtagtggt 2658
 Db 356 CTCCTTCCTGTGTAGAGCTGAAGAGCAGCGTCCCCAGAGGAGCAGCTCAGTAGTGGT 297
 QY 2659 atggagctgtccgagggcttgggtcccccacataaagcactagtctatagatgcctctagg 2718
 Db 296 ATGGAGCTGTGCGAGGCTTGGGCTCCACATAAGCACCTAGTCTATAGATGCTCTTAGG 237
 QY 2719 actggtgcttgcacagccgcggggccagagagctgccacacagcagcagcagcagcagc 2778
 Db 236 ACTGTGCTCT-CCACAGCCCGGGCCAGAGGCTGCCACACGGAAGCAGAGTGAACCT 178
 QY 2779 aatttcatttcaggcaggtttttaagaagctcttgaaacacagcgcgcaccttccctc 2838
 Db 177 AATTTCATTTCAAGCGAGTGTTTTAAAGAGTCTATGGAACACAGCGCGGACCTTTCCTC 118
 QY 2839 taatccagcaagtgtattccctgcacaccacagagacaagcagagtaacaggtacagtggtg 2898
 Db 117 TAATCCAGCAAGTATTCCCTGCACACCAGAGACAAGCAGAGTAAACAGATCAGTGGGT 58


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2578 acgacgacccggtatctgctccttctgtagaagcgaagcagcagcgcgcgcagc 2637
|||||
379 acgacgacccggtatctgctccttctgtagaagcgaagcagcagcgcgcgcagc 320
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259 agtcctatagcgcctcttaggactggtgctgacagcgcgcgcgcgcgcgcgcgc 200
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199 acggaagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 140
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2818 cagacggcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc 2877
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139 cagacggcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc 80
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2878 agagtaacagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 2937
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2938 caataaagattgagttgc 2956
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19 caataaagattgagttgc 1

RESULT 76
LOCUS AF188525/c 233 bp mRNA EST 02-MAR-2000
DEFINITION AF188525 Homo sapiens ATCC HTB-12; SW1088 Homo sapiens cDNA clone
IRIG 1, mRNA sequence.
ACCESSION AF188525
VERSION AF188525.1 GI:7144571
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 233)
AUTHORS Ye, Z., and Connor, J.R.
TITLE Identification of Iron Regulated Genes by Rescreening cDNA
Libraries from SSH with Antisense Probe from Three Iron Conditions
JOURNAL Unpublished (2000)
COMMENT Contact: Ye Z
Neuroscience and Anatomy
Pennsylvania State University College of Medicine
500 University Drive, Hershey, PA 17033, USA
library screened by SSH and reverse Northern blot; decreased
expression in iron loading was confirmed by Northern blot.
FEATURES
Location/Qualifiers
1..233
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IRIG 1"
/clone_lib="Homo sapiens ATCC HTB-12; SW1088"
/tissue_type="astrocytoma"
/cell_line="ATCC HTB-12; SW1088"
BASE COUNT 56 a 68 c 55 g 54 t
ORIGIN
Query Match 7.9%; Score 233; DB 14; Length 233;
Best Local Similarity 100.0%; Pred. No. 7.8e-112;
Matches 233; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

226 acctcagcgtggtgagcagcagcagcagcagcagcagcagcagcagcagcagc 285
|||||
233 acctcagcgtggtgagcagcagcagcagcagcagcagcagcagcagcagcagc 174
|||||
286 agttcaaccggtatctcttcaactgtggaagcagcagcagcagcagcagcagcagc 345
|||||

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Db 173 AGTTCAACCGGTATCTCTCACTGTGAGAGAGCGTTTCAGAGACTCATGAGGAGCACA 114
|||||
Qy 346 agttaaggttgcctgcctggacaacatatctctgacacgaatgcactggtctaatgttg 405
|||||
Db 113 AGTTAAGGTTGCTCGCTGGACAACATATTCTCTGACACGAATGCACGTGCTTAATGTTG 54
|||||
Qy 406 ggggttaagtgaatgattcttactttaaaggaacccggcttccaaagtct 458
|||||
Db 53 GGGGCTTAAGTGAATGATTCTTACTTTAAGGAACCCGGGCTTCCAAAGTGT 1
|||||

RESULT 77
LOCUS H14462/c 394 bp mRNA EST 27-JUN-1995
DEFINITION Y125f04.r1 Soares breast 3NBHst Homo sapiens cDNA clone
IMAGE:159295 5', mRNA sequence.
ACCESSION H14462
VERSION H14462.1 GI:879282
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 394)
AUTHORS Hillier, L., Clark, N., Dubuque, T., Elliston, K., Hawkins, M., Holman,
M., Hultman, M., Kucaba, T., Le, M., Lennon, G., Marra, M., Parsons, J.,
Rifkin, L., Rohlfing, T., Soares, M., Tan, F., Trevisan, E., Waterston,
R., Williamson, A., Wohlmann, P., and Wilson, R.
TITLE The WashU-Merck EST Project
JOURNAL Unpublished (1995)
COMMENT Contact: Wilson RK
Washington University School of Medicine
444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
Insert Size: 509
High quality sequence stops: 268
Source: IMAGE Consortium, LLNL
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium: (info@image.llnl.gov) for further information.
Insert Length: 509 Std Error: 0.00
Seq primer: M13RP1
High quality sequence stop: 268.
FEATURES
Location/Qualifiers
1..394
/organism="Homo sapiens"
/db_xref="GDB:578182"
/db_xref="taxon:9606"
/clone="IMAGE:159295"
/clone_lib="Soares breast 3NBHst"
/sex="Female"
/dev_stage="adult"
/lab_host="DH10B (ampicillin resistant)"
/note="Organ: breast; Vector: pT73D (Pharmacia) with a
modified polylinker; Site_1: Not 1; Site_2: Eco RI; 1st
strand cDNA was primed with a Not I - oligo(dT) primer [5'
TGTTACCAATCTGAAGTGGAGCGCGCCCTTTTTTTTTTTT 3'],
double-stranded cDNA was ligated to Eco RI adaptors
(Pharmacia), digested with Not I and cloned into the Not I
and Eco RI sites of a modified pT73 vector (Pharmacia).
Library went through one round of normalization to a Cot =
20. Library constructed by Bento Soares and M. Fatima
Bonaldo."
BASE COUNT 90 a 96 c 99 g 107 t 2 others
ORIGIN
Query Match 7.9%; Score 233; DB 141; Length 394;
Best Local Similarity 100.0%; Pred. No. 8.1e-112;
Matches 233; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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362 cctggacacataattctacacagaactgactggtctaatgttgggggcttaagtgaat 421
|||||
233 CTTGGACAAATATTTCTGACAGCAATGCTGCTCTAAATGTTGGGGCTTAAGTGAAT 174
|||||
422 gattcttactttaaaggaacccgggtctccaaagtgtgtactttctggacctccacaact 481
|||||
173 GATCTTACTTTAAAGGAACCGGGCTTCCAAAGTGTGTACTTCTGGACCTCCACAAC 114
|||||
482 ggaataactctgaagcaatcaaaaattttctgtccattgaaggaatagaactggc 541
|||||
113 GGAATAATACCTCGAAGCAATCAAAATATTTCTGTGCTCCATTGAAGGAATAGAACTGGC 54
|||||
542 tctgcggccacctctgcccagaataacagagatgaagaaaccatcacagttaac 594
|||||
53 TGTGCGGCCCCACTGTCGCCAGAAACGAGGATGAACCAATGACAGTTACC 1

RESULT 78
LOCUS AA522537/c 865 bp mRNA EST 20-AUG-1997
DEFINITION ni38e08.s1 NCI_CGAP_Lu1 Homo sapiens cDNA clone IMAGE:979142 3',
mRNA sequence.
ACCESSION AA522537
VERSION AA522537.1 GI:2263249
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 865)
AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Tel: (301) 496-1550
Email: Robert.Strausberg@nih.gov
Tissue Procurement: L. Jeffrey Medeiros, M.D., Michael R.
Emmert-Buck, M.D., Ph.D.
cDNA Library Preparation: Stratagene, Inc., David B. Krizman,
Ph.D.
cDNA Library Arraying: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/dbrrp/image/image.html
Seq primer: -40ml3 fwd. ET from Amersham
High quality sequence stop: 436.
FEATURES
source
1..865
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_image="979142"
/clone_lib="NCI_CGAP_Lu1"
/tissue_type="lung tumor"
/lab_host="SOLR (kanamycin resistant)"
/notes="Organ: lung; Vector: Bluescript SK-; Site: 1: EcoRI;
Site: 2: XhoI; Cloned unidirectionally. Primer: Oligo dr.
Bulk lung tumor. 5' adaptor sequence: 5' GAATTCGGCAGAG 3'
3' adaptor sequence: 5' CTCGAGTTTTTTTTTTTTTTT 3'
Average insert size: 1.1 kb."
BASE COUNT 179 a 235 c 227 g 218 t 6 others
ORIGIN
Query Match 7.8%; Score 232; DB 8; Length 865;
Best Local Similarity 99.5%; Pred. No. 2.9e-111;
Matches 402; Conservative 0; Mismatches 1; Indels 1; Gaps 1;
2540 gagaccctgaactcagaagctgtgtcttctgccccagcagcaccggtatctgccc 2599
|||||
403 GAGACCCTGAACCTCAGAAGGCTGTGTCTCTGCCCCAGCAGCACCCTATCTGCC 344
|||||

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QY 2600 tcttctgtagaagctcaagcacgcgtcccccaggaggcagctcagatagggtga 2659
|||||
DB 343 TCTTCTGCTGTAAGCTGAAGACGCGGTCCCGGAGGAGGAGCTCAGATAGGTGGTA 284
|||||
QY 2660 tggagctgtgcccagagcttgggctccacataaagcactagtctatagatgcctcttagga 2719
|||||
DB 283 TGGAGCTGTGCCAGGCTTGGGCTCCACATAGCACTAGTCTATAGATGCCCTCTTAGGA 224
|||||
QY 2720 ctgggtgcctggcacagccgcggggccagggggctgcacacggaagcaagcagatgaacta 2779
|||||
DB 223 CTGCTGCTCT-GCACAGCCGCGGGCCAGAGGCTGCACACGGAAGCAAGCAGATGAAC 165
|||||
QY 2780 attctattcaaggaagctttttaaagaactcttgaaacagcggcgccacctttctct 2839
|||||
DB 164 ATTTCATTTCAAGGCAAGTCTTTTAAAGAACTCATGGAACAGACGGCGGCACCTTCTCT 105
|||||
QY 2840 aatccagcaaatgattccctgcacaccagagacaaagcagagtaacaggtatcagtggtg 2899
|||||
DB 104 AATCCAGCAAGATGATTCCTGCACACAGAGCAAGAGTAACAGGATCAGTGGGTC 45
|||||
QY 2900 taagtctcaggaacttaacgaaaataagttatcagctgcaataa 2943
|||||
DB 44 TAAGTCTCCGAGACTTTAACGAAAATAGTATTTTCAGCTGCAATAA 1

RESULT 79
LOCUS AA928608 282 bp mRNA EST 07-JUL-1998
DEFINITION Om75b03.s1 NCI_CGAP_GC4 Homo sapiens cDNA clone IMAGE:1552973 3',
mRNA sequence.
ACCESSION AA928608
VERSION AA928608.1 GI:3076899
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 282)
AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Tel: (301) 496-1550
Email: Robert.Strausberg@nih.gov
Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael
Emmert-Buck, M.D., Ph.D.
cDNA Library Preparation: M. Bento Soares, Ph.D.
DNA Library Arraying by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/dbrrp/image/image.html
Insert Length: 846 Std Error: 0.00
Seq primer: -40ml3 fwd. ET from Amersham
High quality sequence stop: 255.
FEATURES
source
1..282
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_image="1552973"
/clone_lib="NCI_CGAP_GC4"
/tissue_type="pooled germ cell tumors"
/lab_host="DH10B"
/notes="Vector: pTT73D-Pac (Pharmacia) with a modified
polylinker; 1st strand cDNA was prepared from 3 pooled
germ cell tumors, and was then primed with a Not I -
oligo(dT) primer. Double-stranded cDNA was ligated to Eco
RI adaptors (Pharmacia), digested with Not I and, cloned
into the Not I and Eco RI sites of the modified pTT73
vector. Library is normalized. Library was constructed by
Bento Soares and M. Fatima Bonaldo."
BASE COUNT 63 a 68 c 56 g 84 t 1 others

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ORIGIN

Query Match 7.7%; Score 228; DB 13; Length 282;
Best Local Similarity 100.0%; Pred. No. 3.5e-109;
Matches 228; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

2y 2730 gcacagccgcccagagagctgcccacacggaagcaagcagagagaactatttcatttc 2789
|||||
2b 228 GCACAGCCGCGGCGAGAGCTGCCACACGGAAGCAAGCAGATGAATTCATTTC 169
|||||
2y 2790 aagcaggttttaagaagctttggaacacagcggcgccaccttcctcctaattccagcaa 2849
|||||
2b 168 AAGCAGGTTTTTAAGAAGTCTTGGAAACACAGCGCGCACCTTTCTCTAATCAGCAA 109
|||||
2y 2850 agtattccctgcacacagagacaagcagagtaacagagatcagtggtctaaagtctcg 2909
|||||
2b 108 AGTGATTCCTGCACACAGAGACAAGCAGAGTACAGGATCAGTGGGTCTAAGTGTCCG 49
|||||
2y 2910 agacttaacgaataagatttcagctcgaataaagattgattgca 2957
|||||
2b 48 AGACTTAACGAATAAGTATTTCAGCTGCAATAAAGATTGAGTTGCA 1
|||||

RESULT 80

LOCUS T34024 282 bp mRNA EST 06-SEP-1995
DEFINITION EST61387 Human White blood cells Homo sapiens cDNA 5' end similar
to None, mRNA sequence.

ACCESSION T34024
VERSION T34024.1 GI:616122

KEYWORDS

EST

SOURCE

human.

ORGANISM

Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 282)
ADAMS, M.D., Kerlavage, A.R., Fleischmann, R.D., Fuldner, R.A., Bult
, C.J., Lee, N., Kirkness, E.F., Weinstock, K.G., Gocayne, J.D., White
, O., Sutton, G., Blake, J.A., Brandon, R.C., Chiu, M.-W., Clayton, R.A.,
Cline, R.T., Cotton, M.D., Earle-Hughes, J., Fine, L.D., FitzGerald
, L.M., FitzHugh, W.M., Fritchman, J.L., Geoghagen, N.S.M., Glodek, A.,
Gnehm, C.L., Hanna, M.C., Hedblom, E., Hinkle, J.P., Kelley, J.M.,
Klimek, K.M., Kelley, J.C., Liu, L.-I., Marmaros, S.M., Merrick, J.M.,
Moreno-Palauques, R.F., McDonald, L.A., Nguyen, D.T., Pellegrino, S.M.,
Phillips, C.A., Ryder, S.E., Scott, J.L., Saudek, D.M., Shirley, R.,
Small, K.V., Spriggs, T.A., Utterback, T.R., Weidman, J.F., Li, Y.,
Bednarek, D.P., Cao, L., Cepeda, M.A., Coleman, T.A., Collins, E.-J.,
Dinake, D., Feng, P., Ferrie, A., Fischer, C., Hastings, G.A., He, W.-W.,
Hu, J.-S., Greene, J.M., Gruber, J., Hudson, P., Kim, A., Kozak, D.L.,
Kunsch, C., Ji, H., Li, H., Weissner, P.S., Olsen, H., Raymond, L., Wei
, Y.-F., Wing, J., Xu, C., Yu, G.-L., Ruben, S.M., Dillon, P.J., Fannon
, M.R., Rosen, C.A., Haseltine, W.A., Fields, C., Fraser, C.M. and
Venter, J.C.

TITLE Initial Assessment of Human Gene Diversity and Expression Patterns
Based Upon 83 Million Basepairs of cDNA Sequence

JOURNAL

Nature 377, 3-174 (1995)

MEDLINE

96026280

COMMENT

Other ESTs: THC15444
Contact: Venter, JC
The Institute for Genomic Research
932 Clopper Rd, Gaithersburg, MD 20878

Tel: 3018699056

Fax: 3018699423

Email: tdbinfo@db.tigr.org

For clone availability, additional sequence and expression

information related to this EST, please contact the TIGR Database

(tdbinfo@db.tigr.org)

Seq primer: M13 Reverse.

Location/Qualifiers

1. 282

/organism="Homo sapiens"

/db_xref="ATCC (inhost):104694"

/db_xref="taxon:9606"
/clone_lib="Human White blood cells"
/tissue_type="White blood cells"
/note="Organ: blood"

BASE COUNT 62 a 83 c 62 t 2 others
ORIGIN

Query Match 7.7%; Score 228; DB 145; Length 282;
Best Local Similarity 100.0%; Pred. No. 3.5e-109;
Matches 228; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1672 ctgtgtttgtctccacactgcacagcagatccacacagggcttgccaatgtcttctgtgc 1731
|||||
Db 26 CTGTGTTGTCTCCACCTGTCAGCAGATCACCACACGGGCTTGCCAAAGTATCTTGTCTGC 85
|||||
Qy 1732 agagagaacgcgcttggcattcttgggaagcgcgtccacccttggctggtggtgcc 1791
|||||
Db 86 AGAGAGAACGGCCTTGGCATCTTTGGCAAGCCGCTTCACCCCTTGTGTGGTGTGCC 145
|||||
Qy 1792 ccaaccagctcaagcctggctccagcagatccacacacagtcgacagaggtctctgcacc 1851
|||||
Db 146 CCAACCACTCAAGCCTGGCTCCAGCAGTACCAACACAGTCGACGAGGTCCTGCACC 205
|||||
Qy 1852 acatcagtatgattctcccaaatgcttcagggaagggcgtgagatct 1899
|||||
Db 206 ACATCAGTATGATTCCTGCCAAATGCCCTTCAGGAAGGGCTGAGATCT 253
|||||

RESULT 81

AI357786/c

LOCUS

AI357786.1

DEFINITION

AI357786.1

AI357786.1

AI357786.1

AI357786.1

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AI357786.1

AI357786.1

AI357786.1

AI357786.1

```
BASE COUNT      92 a      117 c      105 g      119 t
ORIGIN
Query Match      7.7%; Score 227; DB 19; Length 433;
Best Local Similarity 99.1%; Pred. No. 1.2e-108;
Matches 427; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

y 2528 gtgaagatctggagaccctgaactcagaagctgtgtctctctcccccacagcagc 2587
b 433 GTGAAGATCTGGGAGACCCCTGAACCTCAGAAGGCTGTGTCTCTCTCCCCACGACG 374
c 2588 cgtatctccctctctgtctgtagaagctgaagacacagcggtcccccagagcagctca 2647
b 373 CCGTATCTCCCTCTCTGTCTGTGTAGAGCTGAAGACAGCGGTCCCCAGAGGAGCTCA 314
c 2648 ggatagtggttgagctgtgcgcaggctgtggctccacacataaagcactagtctataga 2707
c 313 GGATAGGTGGTATGGAGCTGTGCCGAGGCTTGGGGTCCCATATAGCACTAGTCTATAGA 254
c 2708 tgcctettaggactggctgtgcacagccgcgggccagagagctgcacacaggaagcaa 2767
b 253 TGCCCTCTTAGGACTGTGCTGTGCACAGCTGCGGGCCAGGAGGCTGCCACACGGAAAGCAA 194
c 2768 gcagatgaactaatttcattcaagcagcttttaagaagctcttgaaacacagcgcgg 2827
c 193 CGAGATGAACCTAATTTCATTCAAGGACGCTTTTAAGAAGTCATGGAACAGACGCGCG 134
c 2828 cacccttctctaatccagcaaaagtgtatccctgtcacaccagagacagaagcagagtaacag 2887
c 133 CACCCTTCTCTAATCCAGCAAAATGATTCCTTGCCACACAGACAGACAGAGTAACAG 74
c 2888 gatcagtggtctaaagtgtccagacactaacgaaaatagattattcagctgcaataaagat 2947
c 73 GATCAGTGGGTCTAAGTGTCCGAGACTTACGAAATAGTATTTCAGCTGCAATAAAGAT 14
c 2948 tgagtttgcaa 2958
c 13 TGAGTTTGCAA 3

RESULT 82
LOCUS      BE615669      872 bp      mRNA      EST      24-AUG-2000
DEFINITION 601279347F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3611338 5',
            mRNA sequence.
ACCESSION  BE615669
VERSION    BE615669.1 GI:9897268
KEYWORDS   EST.
SOURCE     human.
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1 (bases 1 to 872)
AUTHORS   NIH-MGC http://www.ncbi.nlm.nih.gov/MGC/.
TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL   Unpublished (1999)
COMMENT   Contact: Robert Strausberg, Ph.D.
            Tel: (301) 496-1550
            Email: Robert.Strausberg@nih.gov
            Tissue Procurement: ATCC
            CDNA Library Preparation: Ling Hong/Rubin Laboratory
            CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Incyte Genomics, Inc.
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: L16M268 row: n column: 11
            High quality sequence stop: 667.
FEATURES   Location/Qualifiers
            1..872
            /organism="Homo sapiens"
            /db_xref="taxon:9606"
```

```
/clone="IMAGE:3611338"
/clone_lib="NIH_MGC_39"
/lab_host="DHI0B (phage-resistant)"
/note="Organ: pancreas; Vector: pORF7; Site:1: XhoI;
Site:2: EcoRI; cDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the
following 5' adaptor: GGCAGAG(G). Library constructed
by Ling Hong in the laboratory of Gerald M. Rubin
(University of California, Berkeley) using ZAP-cDNA
synthesis kit (Stratagene) and Superscript II RT (Life
Technologies)."
```

BASE COUNT 196 a 239 c 257 g 180 t
ORIGIN
Query Match 7.6%; Score 224; DB 110; Length 872;
Best Local Similarity 100.0%; Pred. No. 5e-107;
Matches 224; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 213 ccaacacacgttactcgtcaggtgtgagcggttagcgggactcgggcccgcgctc 272
Db 208 CCAAAACACCGTGTACTGTGAGGTGTGGCAGCGGTAGCGGGACTCGGGCCCGCTC 267
QY 273 tagcttctccagttcaacgcgtatctctcaactgtggagaagcgttcagagactc 332
Db 268 TAGCTCTCTCCAGTTCACCGGTATCTTCACTGTGGAGAGCGCTTCAGAGACTC 327
QY 333 atcgaggagcacaagttaaaggtgtgcctgcctggcgaacacatattcctgcacgaatgcac 392
Db 328 ATCGAGGACACAAAGTTAAAGGTTGTCGCTGGCAACATATTCCTGACACGAATGCAC 387
QY 393 tggctaatgttgggggttaagtgaatgattcttacttttaa 436
Db 388 TGGTCTAATGTTGGGGGCTTAAGTGAATGATTCTTACTTTAAA 431

RESULT 83
LOCUS AA235532 291 bp mRNA EST 08-AUG-1997
DEFINITION zt99gll.s1 Soares ovary tumor Nshot Homo sapiens cDNA clone
 IMAGE:723812 3' similar to SW:YK59_YEAST P36159 HYPOTHETICAL 96.8
 KD PROTEIN IN SIS2-MTD1 INTERGENIC REGION. ;, mRNA sequence.
ACCESSION AA235532
VERSION AA235532.1 GI:1860004
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 291)
AUTHORS Hillier, L., Lennon, G., Becker, M., Bonaldo, M.F., Chiapelli, B.,
 Chissoe, S., Dietrich, N., Dubouque, T., Favello, A., Gish, W., Hawkins
 , M., Hultman, M., Kucaba, T., Lacy, M., Le, M., Le, N., Maridis, E., Moore
 , B., Morris, M., Parsons, J., Prange, C., Rifkin, L., Rohlfing, T.,
 Schellenberg, K., Soares, M.B., Tan, F., Thierry-Mieg, J., Trevasakis, E.,
 Underwood, K., Wohlmann, P., Waterston, R., Wilson, R. and Marra, M.
 Generation and analysis of 280,000 human expressed sequence tags
 Genome Res. 6 (9), 807-828 (1996)
 9704478
 Contact: Wilson RK
 Washington University School of Medicine
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: est@watson.wustl.edu
 This clone is available royalty-free through LLNL; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.
 Possible reversed clone: similarity on wrong strand
 Insert Length: 1829 Std Error: 0.00
 Seq primer: -41m13 fwd. ET from Amersham
 High quality sequence stop: 271.

```

FEATURES                               Location/Qualifiers
Source                                  1. .291
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_image="IMAGE:723812"
/clone_lib="Soares ovary tumor NDHOT"
/sex="Female"
/tissue_type="ovarian tumor"
/lab_host="DH10B (ampicillin resistant)"
/note="Organ: ovary; Vector: pT73D (Pharmacia) with a
modified polylinker; Site: 1: Not I; Site 2: Eco RI; 1st
strand cDNA was primed with a Not I - oligo(dT) primer [5',
TGTTCAACTCTGAAGTGGAGCGCGGTTTTTTTTTTTTTTT 3'],
double-stranded cDNA was size selected, ligated to Eco RI
adapters (Pharmacia), digested with Not I and cloned into
the Not I and Eco RI sites of a modified pT73 vector
(Pharmacia). Library constructed by Bento Soares and
M. Fatima Bonaldo."
:ASE COUNT 64 a 73 c 88 g 66 t
:RIGIN

Query Match 7.5%; Score 221; DB 4; Length 291;
Best Local Similarity 100.0%; Pred. No. 1.8e-105;
Matches 221; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 251 cgggactcggcgccgctcagctctctcgcgagttcaaccgggtatcttccaactg 310
|||||
DB 71 CCGGGACTCGGGCGCGCGCTACGCTCTCTCGAGTTCAACCGGATCTCTTCAACTG 130
|||||
QY 311 tggagaagcgcttcagagactcagcaggagcacaagttaagggttgcctcgctggacaa 370
|||||
DB 131 TGAGAGGCGTTTCAGAGACTCATGAGGAGCACAAAGTTAAAGGTGCTCGCTGGACAA 190
|||||
QY 371 catattctgacacgaatgcactggttaattgttgggggttaagtgaatgattcttac 430
|||||
DB 191 CATATCTCTCACAGAAATGACATGCTTAATGTTGGGGGCTTAAGTGAATGATCTTAC 250
|||||
QY 431 tttaaggaaacggcgcttccaaagtgtgactttcttgagac 471
|||||
DB 251 TTTAAAGAAACCGGGCTTCCAAAGTGTGTACTTCTGGAC 291
|||||

RESULT 84
LOCUS AI804749/c 477 bp mRNA EST 07-MAR-2000
DEFINITION tu42d02.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2253699 3',
mRNA sequence.
ACCESSION AI804749
VERSION AI804749.1 GI:5370221
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 477)
AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Tel: (301) 496-1550
Email: Robert.Strausberg@nih.gov
Tissue Procurement: Michael J. Brownstein, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
cDNA Library Preparation: M. Bento Soares, Ph.D.
cDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www.bio.llnl.gov/brp/image/image.html
Insert Length: 876 Std Error: 0.00
Seq primer: -40UP from Gibco

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FEATURES                               Location/Qualifiers
Source                                  1. .477
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_image="IMAGE:2253699"
/clone_lib="NCI_CGAP_Pr28"
/sex="male"
/dev_stage="adult"
/lab_host="DH10B"
/note="Organ: prostate; Vector: pT73D-Pac (Pharmacia)
with a modified polylinker; Plasmid DNA from the
normalized library NCI_CGAP_Pr22 was prepared, and ss
circles were made in vitro. Following HAP purification,
this DNA was used as tracer in a subtractive hybridization
reaction. The driver was PCR-amplified cDNAs from a pool
of 5,000 clones made from the same library (clonoids
985608-986759, 110192-110199, and 1217928-1220615).
Subtraction by Bento Soares and M. Fatima Bonaldo."
BASE COUNT 93 a 130 c 120 g 133 t 1 others
ORIGIN

Query Match 7.4%; Score 220; DB 25; Length 477;
Best Local Similarity 98.9%; Pred. No. 6.3e-105;
Matches 470; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 2484 cgggcccacacagagagcagccagggcccaagagtgtagccagccagtgagatctgggaga 2543
|||||
DB 477 CGGGCCACACAGAGGAGCCAGGCGCCAGAGGTGTCAGAGTCCAGAGTCTGGGAGA 418
|||||
QY 2544 cctgaactcagaagctgtgtctctcccccagcagcagccgctatctccctcct 2603
|||||
DB 417 CCTGAACTCAGAAGGCTGTGTCTTCTCCCCACGACGACCCGCTATCTGCCCTCT 358
|||||
QY 2604 tgcgtgtagaagctgaagcagcaggtctcccccagggagcagctcaggatagtggtatgga 2663
|||||
DB 357 TGCTGTAGAGCTGAAGACACGGTCTCCCCAGGAGGACGCTCAGGATAGGTGTATGGA 298
|||||
QY 2664 gctgtgccgaggttggtgggtccacataagcactagtctatagatgctctttaggactgg 2723
|||||
DB 297 GCTGTGCCNAGGCTTGGGTGCCACATAGCACTAGTCTATAGATGCTCTTAGGACTGG 238
|||||
QY 2724 tgcctggcacagcggggccagagaggtctccacaggaagcagagaggaatattt 2783
|||||
DB 237 TGCTGTGCACAGCTGCGGGCCAGGAGGCTCCACACGGAAGCAGAGTGAATAATTT 178
|||||
QY 2784 catttcaaggcagtttttaagaagctcttggaaacagacggcgccactttctcttaac 2843
|||||
DB 177 CATTTCAAGGCAGTTTTTAAGAAGTCATGGAACAGACGCGGCACCTTTCTCTAATC 118
|||||
QY 2844 cagcaaatgtattcctctgcacacacagacagcagcagagtagtaacaggtatcagtggtctaa 2903
|||||
DB 117 CAGCAAAATGATTCCTTCGACACAGCAGACAGCAGAGTAAACAGGATCAGTGGGTCTAAG 58
|||||
QY 2904 tgcctcagacttaacaaaataagatttctcagctgcataaagattgattgcaa 2958
|||||
DB 57 TGTCGAGAGCTTAACGAAAATAGTATTTCAGCTGCAATAAGATTGATTGGCAA 3
|||||

RESULT 85
LOCUS AW296524 228 bp mRNA EST 16-JAN-2000
DEFINITION UI-H-BW0-aiv-a-09-0-UI.S1 NCI_CGAP_Sub6 Homo sapiens cDNA clone
IMAGE:2730521 3', mRNA sequence.
ACCESSION AW296524
VERSION AW296524.1 GI:6703160
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 228)

```

AUTHORS NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Tel: (301) 496-1550
Email: Robert.Strausberg@nih.gov
Oligo-dT track not found, Not I site shown in beginning of sequence
is likely internal to the message. cDNA Library Preparation: M.B.
Soares Lab clone distribution: NCI-CGAP clone distribution
information can be found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
Seq primer: M13 Forward
POLYA-No.

FEATURES

source

Location/Qualifiers
1. 228
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2730521"
/clone_lib="NCI-CGAP_Sub6"
/lab_host="DH10B (Life Technologies)"
/note="vector: p773D-Pac (Pharmacia) with a modified
polylinker; Site 1: Not I; Site 2: Eco RI; NCI-CGAP_Sub6
is a subtracted library derived from BW, which consists of
a mixture of four normalized libraries: NCI-CGAP_Brn50,
NCI-CGAP_Lu13, NCI-CGAP_Ov18, GBC1. The NCI-CGAP_Sub6
library had 7 million recombinants. A single-stranded DNA
preparation of BW was used as a tracer in a subtractive
hybridization with a driver comprising: the IMAGE pool
(NCI-CGAP_Kid3 pool 1 LLAM 3334-3337, 3682-3683,
3798-3803 (IMAGE Clones 1323376-1323911,
1456008-1456775, 1500552-1502855); NCI-CGAP_Kid5 pool 1
LLAM 3338-3342, 3722-3725, 3776-3778 (IMAGE Clones
1323912-1325831, 1471368-1472903, 1492104-1493255);
NCI-CGAP_Lu5 pool 1 LLAM 3575-3582, 3851-3854 (IMAGE
Clones 1414920-1417991, 1520904-1522439); NCI-CGAP_GC4
pool 1 LLAM 3164-3167, 3716-3720, 3733-3735 (IMAGE
Clones 1257096-1258631, 1469064-1470983, 1475592-1476743
); NCI-CGAP_P22 pool 1 LLAM 2457-2459, 2758-2759,
3062-3068 (IMAGE Clones 985608-986759, 1101192-1101959,
1217928-1220615); NCI-CGAP_Co10 pool 1 LLAM 2644-2653,
2871-2872 (IMAGE Clones 1057416-1061255, 1144584-1145351
). (50% of the driver population), plus a pool of 3,840
arrayed clones from NCI-CGAP_Sub1 (IMAGE Clones
2708618-2710535) and NCI-CGAP_Sub2 (IMAGE Clones
2710536-2712455) (20% of the driver population), plus a
pool of 11,136 clones from NCI-CGAP_Sub3 (IMAGE Clones
2712456-2723591) (30% of the driver population).
Subtraction was performed as previously described [Bonaldo
, Lennon & Soares (1996): Normalization and Subtraction:
Two Approaches To Facilitate Gene Discovery. Genome
Research 6, 791-806.
TAG_LIB=NCI-CGAP-Lu13
TAG_TISSUE=lung
TAG_SEQ=GCCGG"
BASE COUNT 41 a 72 c 78 g 37 t
ORIGIN

Query Match 7.4%; Score 218; DB 88; Length 228;
Best Local Similarity 100.0%; Pred. No. 5.9e-104;
Matches 218; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
1 CGGCGCGCAAGGACCCGCTCGGACCTCGGACGCGAGAGAGCGGACCGCTCGGG 60
141 CGGCGCGCAAGGACCCGCTCGGACCTCGGACGCGAGAGAGCGGACCGCTCGGG 200
201 TGTCTCGGCGGCGGCAACACCGTGTACCTGAGGTGGGCGGAGCGGAGCTCG 260
61 TGTCTCGGCGGCGGCAACACCGTGTACCTGAGGTGGGCGGAGCGGAGCTCG 120
261 GGCCTCGGCGGCTACGCTTCTCCAGGTTCCACCGGTATCTTCAACTGTGGAGAGGC 320

Db 121 GGCGCGCGCTCTAGCTTCTCCGAGTTCACCGGTATCTCTTCAACTGTGGAGAGGC 180
Qy 321 gttcagagactcgcggagacacaaagttaaaggttgc 358
|||||
Db 181 GTTCAGAGACTCATGCGAGGACACAAAGTTAAAGGTTC 218
RESULT 86
N36229 448 bp mRNA EST 16-JAN-1996
LOCUS Y730C04.s1 Soares melanocyte 2NDHM Homo sapiens cDNA clone
DEFINITION IMAGE:272742 3' similar to SW:YK59.YEAST P36159 HYPOTHETICAL 96.8
KD PROTEIN IN SIS2-MTD1 INTERGENIC REGION. [1] ; mRNA sequence.
N36229
ACCESSION N36229.1 GI:1157371
VERSION N36229.1
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 448)
AUTHORS Hillier, L., Clark, N., Dubuque, T., Elliston, K., Hawkins, M., Holman,
M., Hulman, M., Kucaba, T., Le, M., Lennon, G., Mairra, M., Parsons, J.,
Rifkin, L., Rohlfing, T., Soares, M., Tan, F., Trevaskis, E., Waterston,
R., Williamson, A., Wohldmann, P. and Wilson, R.
TITLE The WasNO-Merck EST Project
JOURNAL Unpublished (1995)
COMMENT Contact: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
High quality sequence stops: 365
Source: IMAGE Consortium, LLNL
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (infoimage.llnl.gov) for further information.
Possible reversed clone: similarity on wrong strand
Possible reversed clone: polyT not found
Seq primer: m13 -40 forward
High quality sequence stop: 365.
FEATURES
Location/Qualifiers
1. 448
/organism="Homo sapiens"
/db_xref="GDB:3882384"
/db_xref="taxon:9606"
/clone="IMAGE:272742"
/clone_lib="Soares melanocyte 2NDHM"
/sex="Male"
/tissue_type="melanocyte"
/lab_host="DH10B (ampicillin resistant)"
/note="vector: p773D (Pharmacia) with a modified
polylinker; Site 1: Not I; Site 2: Eco RI; 1st strand cDNA
was primed with a Not I - oligo(dT) primer [5,
TGTTACCAATCTCAAGTGGGAGCGCGGCGGAGTTTGTGTTT 3'],
double-stranded cDNA was size selected, ligated to Eco RI
adapters (Pharmacia), digested with Not I and cloned into
the Not I and Eco RI sites of a modified p773 vector
(Pharmacia). Library constructed by Bento Soares and
M.Fatima Bonaldo. RNA from normal foreskin melanocytes
(FS374) was kindly provided by Dr. Anthony P. Albino."
BASE COUNT 110 a 113 c 127 g 94 t
ORIGIN

Query Match 7.4%; Score 218; DB 142; Length 448;
Best Local Similarity 100.0%; Pred. No. 7.2e-104;
Matches 218; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 252 cgggactcggcgccgcgctcagctcttcctccaggttcacccggtatctcttcaactgt 311
Db 109 CGGAGCTCGGCGCGCGCTCTAGCTTCTCCGAGTTCACCGGTATCTCTCAACTGT 168


```

2b 159 TGGAAACACAGCGGCGACCTTCTCTTAATCCAGCAAGAGTATTCCTCCGACACACAGAG 100
2y 2872 acaagcagagtaacaggatcagtggtcttaagtgtccgagacttaacgaaatagtattt 2931
2b 99 ACAACAGAGTAAACAGGATCAGTGGGTCTTAAGTCTCCGAGACTTAACGAAATAGTATT 40
2y 2932 cagctgcaataaagattgagttgcaa 2958
2b 39 CAGCTGCAATAAAGATTGAGTTTGCAA 13

RESULT 91
LOCUS W37591 422 bp mRNA EST 10-OCT-1996
DEFINITION zc10f03.r1 Soares parathyroid_tumor_NbHPA Homo sapiens cDNA clone
ACCESSION W37591
VERSION W37591.1 GI:1319196
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 422)
AUTHORS M. Hultman,M. Kucaba,T., Le,M., Lennon,G., Marra,M., Parsons,J.,
Rifkin,L., Rohlfing,T., Soares,M., Tan,F., Trevasakis,E., Waterston
,R., Williamson,A., Wohlmann,P. and Wilson,R.
The WashU-Merck EST Project
Unpublished (1995)
CONTACT: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Insert Length: 678 Std Error: 0.00
Seq primer: mob.REGA+ET.
FEATURES
Location/Qualifiers
1. 422
/organism="Homo sapiens"
/db_xref="GDB:1259575"
/db_xref="taxon:9606"
/clone="IMAGE:321917"
/tissue_type="parathyroid_tumor_NbHPA"
/dev_stage="adult"
/lab_host="DH10B (ampicillin resistant)"
/note="Organ: parathyroid gland; Vector: pTT73D (Pharmacia
) with a modified polylinker; Site_1: Not I; Site_2: Eco
RI; 1st strand cDNA was primed with a Not I - oligo(dT)
primer
[5'-TGTTACCAATCTGAAGTGGGCGCGCACCAATTTTTTTTTTTTTTTT
TTTTT-3'], double-stranded cDNA was size selected, ligated
to Eco RI adaptors (Pharmacia), digested with Not I and
cloned into the Not I and Eco RI sites of a modified pTT73
vector (Pharmacia). Library went through one round of
normalization to a Cot = 5. Library constructed by Bento
Soares and M.Fatima Bonaldo. RNA from sporadic parathyroid
adenomas was kindly provided by Dr. Stephen Marx, National
Institute of Diabetes and Digestive and Kidney Diseases,
NIH."
BASE COUNT 100 a 115 c 102 g 104 t 1 others
ORIGIN
Query Match 7.0%; Score 206; DB 146; Length:422;
Best Local Similarity 100.0%; Pred. No. 1.6e-97;
Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
2y 841 tccagttgggacagctgccatgcctccatctgctgctgaagcgggaaagca 900

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Db 271 TCCAGTGGGACAGCTGCCATCGCTCCCATCATTTGCTGCTCAAGGACGGAAAGCA 212
Qy 901 tcaatcatgaaggaagagagatttttgctgaagagctgtgtactctccagatcctggtg 960
Db 211 TCACATCATGAAGGAAGAGAGATTTTGGCTGAAGAGCTGTGTACTCTCCAGATCCTGGTG 152
Qy 961 ctgcttttggtggtgtagaagtcacagatgaagagcttcaaccatctgtgagaatg 1020
Db 151 CTGCTTTTGTGGTGTAGTAATGTCAGATGAAGAGCTTCATTCACCCATCTGTGAGATG 92
Qy 1021 ccaccttcagaggtaccagaaggaag 1046
Db 91 CCACCTTCAGAGGTACCAAGGAAG 66

RESULT 92
LOCUS R51138 472 bp mRNA EST 18-MAY-1995
DEFINITION YG71C08.r1 Soares infant brain 1N1B Homo sapiens cDNA clone
IMAGE:38752.5' similar to SP:YK59_YEAST P36159 HYPOTHETICAL 96.8 KD
PROTEIN IN SIS2-MTD1 INTERGENIC ;, mRNA sequence.
ACCESSION R51138
VERSION R51138.1 GI:813040
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 472)
AUTHORS Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M., Holman
,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M., Parsons,J.,
Rifkin,L., Rohlfing,T., Soares,M., Tan,F., Trevasakis,E., Waterston
,R., Williamson,A., Wohlmann,P. and Wilson,R.
The WashU-Merck EST Project
Unpublished (1995)
CONTACT: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
High quality sequence stops: 327
Source: IMAGE Consortium, LLNL
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Seq primer: M13RP1
High quality sequence stop: 327.
FEATURES
Location/Qualifiers
1. 472
/organism="Homo sapiens"
/db_xref="GDB:411293"
/db_xref="taxon:9606"
/clone="IMAGE:38752"
/clone_lib="Soares infant brain 1N1B"
/dev_stage="73 days post natal"
/note="Organ: whole brain; Vector: Lqmid BA; Site_1: Not
I; Site_2: Hind III; 1st strand cDNA was primed with a Not
I - oligo(dT) primer [5'
AACGTGAGAGATTCGCGCCGACGAGATTTTTTTTTTTTTTTT 3'];
double-stranded cDNA was ligated to Hind III adaptors
(Pharmacia), digested with Not I and directionally cloned
into the Not I and Hind III sites of the Lqmid BA vector.
Library went through one round of normalization. Library
constructed by Bento Soares and M.Fatima Bonaldo."
BASE COUNT 105 a 131 c 125 g 102 t
ORIGIN
Query Match 6.7%; Score 199; DB 144; Length 472;
Best Local Similarity 100.0%; Pred. No. 8.4e-94;

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Seq primer: M13 Reverse.
Location/Qualifiers
1..394
/organism="Homo sapiens"
/db_xref="ATCC (inhost):147767"
/db_xref="taxon:9606"
/clone_lib="Greater omentum IV"
/dev_stage="adult"
/note="organ: omentum; Vector: pBluescript SK-; Site_1:
EcoRI; Site_2: XhoI"
81 a 108 c 108 g 96 t 1 others
BASE COUNT 81 a 108 c 108 g 96 t 1 others
ORIGIN
1..276
/organism="Homo sapiens"
/db_xref="ATCC (inhost):182644"
/db_xref="taxon:9606"
/clone_lib="Synovial sarcoma"
/sex="female"
/tissue_type="synovial membrane"
/dev_stage="adult, 20 Yrs"
/note="Vector: pBluescript SK-; Site_1: EcoRI; Site_2:
XhoI"
70 a 75 c 79 g 50 t 2 others
BASE COUNT 70 a 75 c 79 g 50 t 2 others
ORIGIN
Query Match 6.2%; Score 184; DB 6; Length 276;
Best Local Similarity 99.6%; Pred. No. 7.2e-86;
Matches 234; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2011 tgcacacctctggcggaaagtgggtctattccggggagacacacccctgcagagctctgg 2070
|||||
Db 1 TGCACACCTCTGGCTGGAAGTGGTCTATTCCGGGGACACCATGCTCGAGGCTCTGG 60

QY 2071 tcgggatgggaaagatgcacacctctctgatacatgaagccacctggagatggtttgg 2130
|||||
Db 61 TCCGGATGGGGAAGATGTCACCCCTCTGTATGATGTAAGCCACCTGGGAAGATGGTTTG 120

QY 2131 aagaggaagcagtggaagagacacacagcagcaacgtcccaagccatcagctggggatgc 2190
|||||
Db 121 AAGAGGAAGCAGTGGAAAAAGACACACAGCAGCAACGTCCTCCAGCATCAGCTGGGATGC 180

QY 2191 ggaatgaacggaggttcattatgctgaacacatttcagcagcgctatgcaaggt 2245
|||||
Db 181 GGATGAACGCGGAGTTTATTATGCTGAACCACTTCAGCCAGCGCTATGCCAAGGT 235

RESULT 96
244544 290 bp mRNA EST 14-NOV-1994
LOCUS HSC33E061 normalized infant brain cDNA Homo sapiens cDNA clone
DEFINITION c-23e06, mRNA sequence.
ACCESSION 244544
VERSION 244544.1 GI:573683
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
REFERENCE 1 (bases 1 to 290)
AUTHORS Auftray,C., Behar,G., Bois,F., Bouchier,C., da Silva,C., Devignes
,M.D., Duprat,S., Houllatte,R., Jumeau,M.N., Lamy,B., Lorenzo,F.,
Mitchell,H., Mariage-Samson,R., Pietu,G., Poulliot,Y.,
Sebastiani-Kabakchis,C. and Tessier,A.
IMAGE: molecular integration of the analysis of the human genome
and its expression
JOURNAL C. R. Acad. Sci. III, Sci. Vie 318 (2), 263-272 (1995)
MEDLINE 95277534
COMMENT Contact: Genethon
GenexPress-Genethon
Genethon Centre de recherche sur le Genome Humain
1, rue de l'Internationale, BP60 91002 EVRY Cedex, FRANCE
Tel: 33169472800
Fax: 33160778698
Email: genexpress@genethon.fr
Single read.
GenexPress_library_id: C:\GenexPress_sequence_id: yic-23e06

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/note="Organ: liver; Vector: pBluescript SK; Site_1: EcoRI
; Site_2: XhoI; Cloned unidirectionally. Primer: Oligo
dr. Hepatectomy from normal male caucasian. Average insert
size: 1.1 kb; Uni-ZAP XR Vector; -5' adaptor sequence: 5'
GAATTCGGCAGCAG 3' -3' adaptor sequence: 5'
CTCGAGTTTTTTTTTTT 3'"

BASE COUNT 82 a 94 c 121 g 63 t 16 others

ORIGIN

Query Match 6.0%; Score 178; DB 145; Length 376;
Best Local Similarity 100.0%; Pred. No. 1.1e-82;
Matches 178; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
2208 attatgtaaacacattcagccagcgtatgccaaggtcccccctcttcagcccaacttc 2267
|||||
37 ATTATGCTGAACCACTTCAGCCAGCGCTATGCCAAGGTCCCCCTCTTCAGCCCAACTTC 96
2268 agcgagaaagtggagttgccttgaccacatgaaggtctgcttggagactttccaaca 2327
|||||
97 AGCGAGAAAGTGGAGTTGCTTTGACCACATGAAGGTCTGCTTTGGAGACTTTCCAACA 156
2328 atgcccagctgattcccccaactgaagccctgtttgctgagacatcgaggagatgg 2385
|||||
157 ATGCCCAAGCTGATTCCCCCACTGAAAGCCCTGTTTCTGGCGACATCGAGGAGATGG 214

Search completed: February 18, 2001, 09:27:24
Job time: 14671 sec